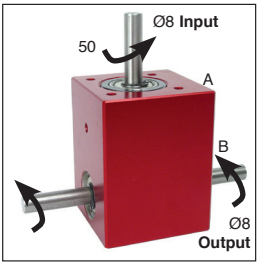
Right angled gearbox, dual output shafts

BL8

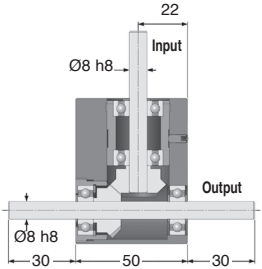
Torque up to 2Nm

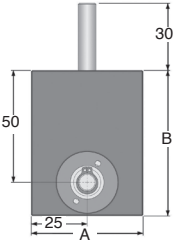
- ***Ratios from 1:1 to 4:1***
- *Output backlash ≤ 45' (0,75°)*
- *Max. input speed: 2,000 rpm*
- *Materials:*
  Casing: anodised aluminium
  input and output : non-hardened steel
- *Weight: 0.56 kg*

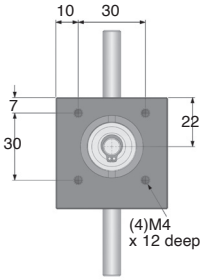


Options

- *Can be modified to your specifications*







OUTPUT TORQUE (Nm: VALUES GIVEN AS A GUIDE ONLY)

Ratios		1:1	2:1	3:1	4:1
	2000	0,40	0,20	0,50	0,80
	1000	0,50	0,30	0,50	0,90
INPUT	500	0,50	0,30	0,60	1,10
SPEED	200	0,60	0,40	0,70	1,30
(rpm)	100	0,70	0,40	0,80	1,40
	50	0,80	0,40	0,90	1,60
	10	1,00	0,60	1,20	2,00

DISCOUNTS

Qty	1+	3+	4+
Disc.	List	-15%	On request

Part number	Ratio	Efficiency at 1000 rpm	Max. input speed (rpm)	Max. output speed (rpm)	A	B	Module	Stock*	Price each
BL8-1	1:1	88%	2000	2000	50	65	0,8	-	456,38 €
BL8-2	2:1	88%	2000	1000	50	65	0,8	-	456,38 €
BL8-3	3:1	88%	2000	666	50	75	0,8	✔	456,38 €
BL8-4	4:1	88%	2000	500	60	80	0,8	-	456,38 €
BL8-XH	1:1 - 4:1	**With hardened gears = output torque x 2**						-	On request

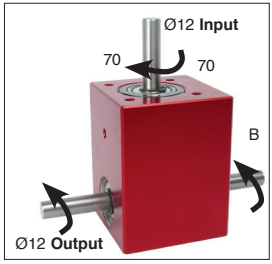
**Depending on availability - Dimensions in mm*

Right angled gearbox, dual output shafts

Torque up to 6Nm

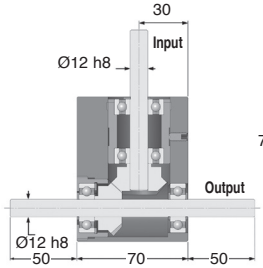
BL15

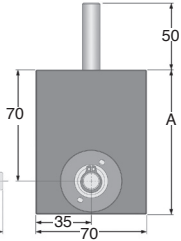
- ***Ratios from 1:1 to 4:1***
- *Output backlash ≤ 45' (0,75°)*
- *Max. input speed: 2,000 rpm*
- *Materials:*
  Casing: anodised aluminium
  input and output : non-hardened steel
- *Weight: 1.70 kg*

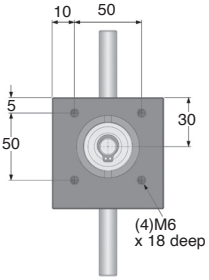


Options

- *Can be modified to your specifications*







OUTPUT TORQUE (Nm: VALUES GIVEN AS A GUIDE ONLY)

Ratios		1:1	2:1	3:1	4:1
INPUT SPEED (rpm)	2000	2,00	1,10	2,30	2,20
	1000	2,30	1,20	2,60	2,50
	500	2,70	1,40	3,00	2,80
	200	3,20	1,70	3,60	3,40
	100	3,50	2,00	4,00	3,70
	50	3,90	2,20	4,50	4,20
	10	5,00	2,90	6,00	5,50

DISCOUNTS

Qty	1+	3+	4+
Disc.	List	-15%	On request

Part number	Ratio	Efficiency at 1000 rpm	Max. input speed (rpm)	Max. output speed (rpm)	B	Module	Price each
BL15-1	1:1	88%	2000	2000	90	1,5	630,05 €
BL15-2	2:1	88%	2000	1000	105	1,5	630,05 €
BL15-3	3:1	88%	2000	666	110	1,5	630,05 €
BL15-4	4:1	88%	2000	500	120	1,0	760,11 €
BL15-XH	1:1 - 4:1	**With hardened gears = output torque x 2**					on request

Dimensions in mm

Right angled gearbox

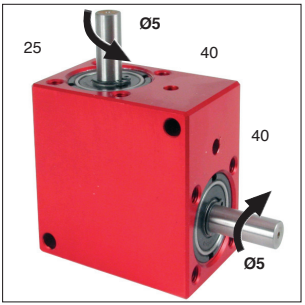
BLH20

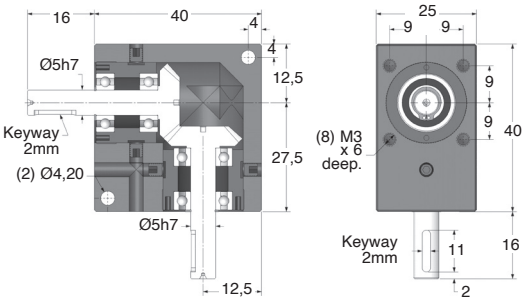
Torque up to 1.77Nm

- ***Input and output rotate in opposite directions***
- *Ratios from 1:1 to 2:1*
- *Output backlash ≤ 45' (0,75°)*
- *Max. speed: 3,000 rpm*
- *Materials:*
  casing: anodised aluminium
  input and output: hardened stainless steel
- *Keyway conforms to DIN 6885*
- *Greased for life: Shell Gadus S2 V220AD 2*
- *Weight: 0.11 kg*

Options

- *Can be modified to your specifications*





OUTPUT TORQUE (Nm values given as a guide only)

Ratios		1:1	2:1
INPUT SPEED (rpm)	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

DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-15%	On request

Part number	Ratio	Efficiency at 1000 rpm	Max. input speed (rpm)	Max. output speed (rpm)	Reflected inertia at input (kg.m²)	Stock*	Price each
BLH20-1	1:1	88%	3000	3000	$4{,}34 \times 10^{-7}$	✔	436,19 €
BLH20-2	2:1	88%	3000	1500	$8{,}41 \times 10^{-8}$	✔	436,19 €

**Depending on availability - Dimensions in mm*

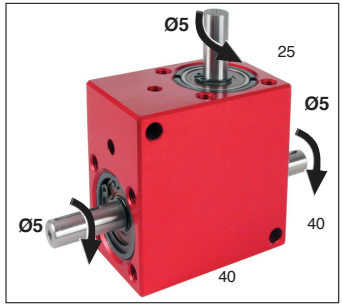
Size XS ★★★

Right angled gearbox, dual output shafts

Torque up to 1.77Nm

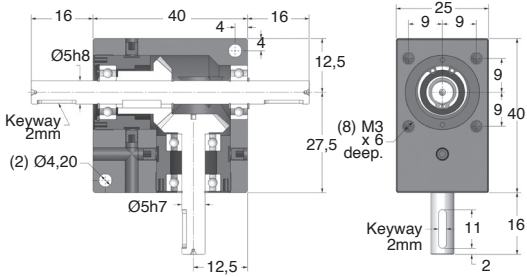
BLHT20

- ***Through-shaft offers both output directions***
- *Ratios from 1:1 to 2:1*
- *Output backlash ≤ 45' (0,75°)*
- *Max. speed: 3,000 rpm*
- *Materials:*
  casing: anodised aluminium
  input: hardened stainless steel
  output: unhardened stainless steel
- *Keyway conforms to DIN 6885*
- *Greased for life: Shell Gadus S2 V220AD 2*
- *Weight: 0.12 kg*



Options

- *Can be modified to your specifications*



OUTPUT TORQUE (Nm values given as a guide only)

Ratios		1:1	2:1
INPUT SPEED (rpm)	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

DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-15%	On request

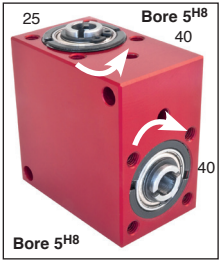
Part number	Ratio	Efficiency at 1000 rpm	Max. input speed (rpm)	Max. output speed (rpm)	Reflected inertia at input ($kg.m^2$)	Stock*	Price each
BLHT20-1	1:1	88%	3000	3000	$4{,}34 \times 10^{-7}$	✔	479,84 €
BLHT20-2	2:1	88%	3000	1500	$8{,}41 \times 10^{-8}$	-	479,84 €

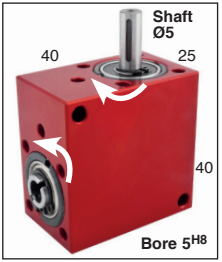
**Depending on availability - Dimensions in mm*

BLHB20
BLHI20
BLHO20

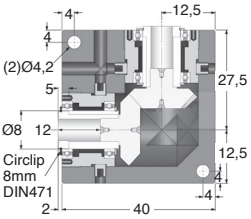
Torque up to 1.77Nm

- ***Input and output rotate in opposite directions***
- *Ratio from 1:1 to 2:1*
- *Output backlash ≤ 45' (0,75°)*
- *Max. speed: 3,000 rpm*
- *Greased for life*
- *Materials:*
  casing: anodised aluminium
  gears: hardened stainless steel
- *Allowable loads, please refer to the technical pages*

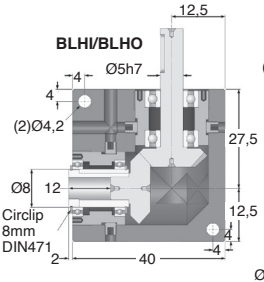


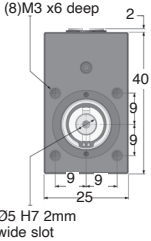


BLHB



BLHI/BLHO





OUTPUT TORQUE (Nm VALUES GIVEN AS A GUIDE ONLY)

Ratios		1:1	2:1
INPUT SPEED (rpm)	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

DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-15%	On request

Part number	Ratios	Input shaft	Output shaft	Efficiency at 1000 (rpm)	Max. input speed (rpm)	Max. output speed (rpm)	Stock*	Price each
BLHB20-1	1:1	Bore	Bore	88%	3000	3000	✔	587,36 €
BLHB20-2	2:1	Bore	Bore	88%	3000	1500	-	587,36 €
BLHI20-1	1:1	Bore	Shaft	88%	3000	3000	-	536,47 €
BLHI20-2	2:1	Bore	Shaft	88%	3000	1500	-	536,47 €
BLHO20-2	2:1	Shaft	Bore	88%	3000	1500	-	536,47 €

**Depending on availability - Dimensions in mm*

Size XS 1 2 3 ★★★

Right angled gearbox, dual output shafts

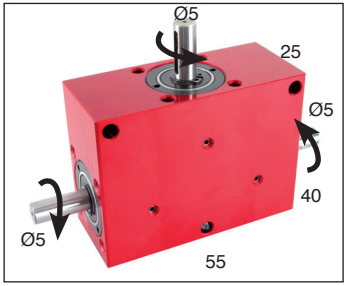
Torque up to 1.77Nm

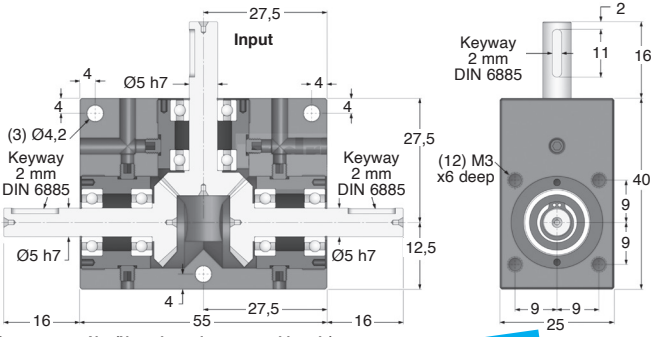
BLHM20

- ***Input and two outputs have a reversed direction of rotation***
- *Ratios of 1:1 to 2:1*
- *Output backlash ≤ 45' (0,75°)*
- *Max. speed: 3,000 rpm*
- *Materials: casing: anodised aluminium input and output: hardened stainless steel*
- *Weight: 0.16 kg*

Options

- *Can be modified to your specifications*





Output torque Nm (Nm values given as a guide only)

Ratios		1:1	2:1
	3000	0,66	0,53
	2000	0,72	0,58
INPUT	1000	0,88	0,70
SPEED	500	1,00	0,80
(rpm)	100	1,35	1,08
	50	1,48	1,18
	10	1,77	1,41

Innovative ! Outputs rotate in opposite directions

DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-15%	On request

Part number	Ratio	Efficiency at 1000 rpm	Max. input speed (rpm)	Max. output speed (rpm)	Reflected inertia at input (kg.m²)	Stock*	Price each
BLHM20-1	1:1	88%	3000	3000	$4,34 \times 10^{-7}$	✔	654,39 €
BLHM20-2	2:1	88%	3000	1500	$8,41 \times 10^{-8}$	-	654,39 €

**Depending on availability - Dimensions in mm*

Right angled gearbox

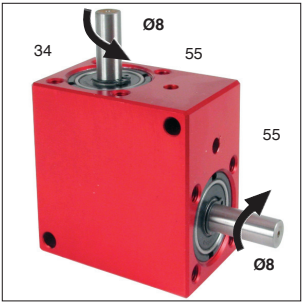
BLH30

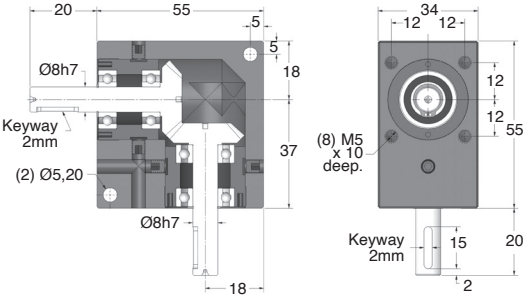
Torque up to 4.4Nm

- ***Input and output rotate in opposite directions***
- *Ratios from 1:1 to 2:1*
- *Output backlash ≤ 45' (0,75°)*
- *Max. speed: 3,000 rpm*
- *Materials:*
  casing: anodised aluminium
  input and output: hardened stainless steel
- *Keyway conforms to DIN 6885*
- *Greased for life: Shell Gadus S2 V220AD 2*
- *Weight: 0.28 kg*

Options

- *Can be modified to your specifications*





OUTPUT TORQUE (Nm values given as a guide only)

Ratios		1:1	2:1
INPUT SPEED (rpm)	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

DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-15%	On request

Part number	Ratio	Efficiency at 1000 rpm	Max. input speed (rpm)	Max. output speed (rpm)	Reflected inertia at input ($kg.m^2$)	Stock*	Price each
BLH30-1	1:1	88%	3000	3000	$2,19 \times 10^{-6}$	✔	563,98 €
BLH30-2	2:1	88%	3000	1500	$5,00 \times 10^{-7}$	✔	563,98 €

**Depending on availability - Dimensions in mm*

Right angled gearbox, dual output shafts

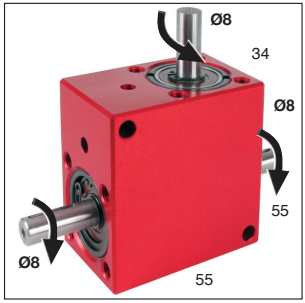
Torque up to 4.4Nm

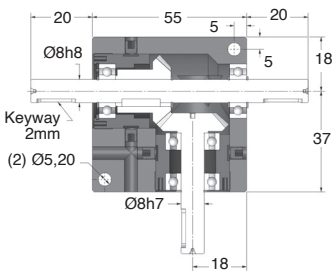
BLHT30

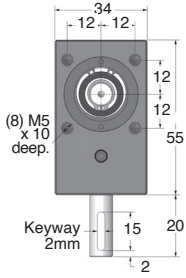
- ***Through shaft offers both output directions***
- *Ratios from 1:1 to 2:1*
- *Output backlash ≤ 45' (0,75°)*
- *Max. speed: 3,000 rpm*
- *Materials:*
  casing: anodised aluminium
  input: hardened stainless steel
  output: non-hardened stainless steel
- *Keyway conforms to DIN 6885*
- *Greased for life: Shell Gadus S2 V220AD 2*
- *Weight: 0.3 kg*

Options

- *Can be modified to your specifications*







OUTPUT TORQUE (Nm values given as a guide only)

Ratios		1:1	2:1
	3000	1,65	1,32
	2000	1,81	1,45
INPUT	1000	2,20	1,76
SPEED	500	2,51	2,00
(rpm)	100	3,38	2,70
	50	3,70	3,00
	10	4,40	3,54

DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-15%	On request

Part number	Ratio	Efficiency at 1000 rpm	Max. input speed (rpm)	Max. output speed (rpm)	Reflected inertia at input ($kg.m^2$)	Stock*	Price each
BLHT30-1	1:1	88%	3000	3000	$2{,}19 \times 10^{-6}$	✔	620,38 €
BLHT30-2	2:1	88%	3000	1500	$5{,}00 \times 10^{-7}$	✔	620,38 €

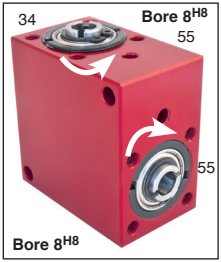
**Depending on availability - Dimensions in mm*

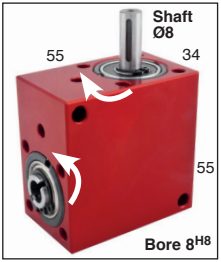
Right angled gearbox, bored shafts ★★★

BLHB30
BLHI30
BLHO30

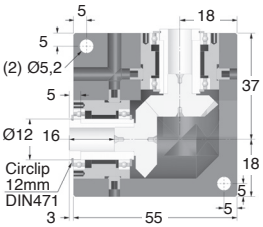
Torque up to 4.4Nm

- ***Input and output rotate in opposite directions***
- *Ratio from 1:1 to 2:1*
- *Output backlash ≤ 45' (0,75°)*
- *Max. speed: 3,000 rpm*
- *Greased for life*
- *Materials:*
  casing: anodised aluminium
  gears: hardened stainless steel
- *Allowable loads, please refer to the technical pages*

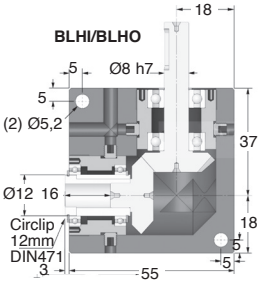


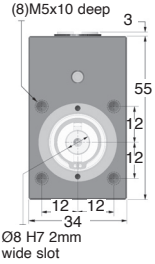


BLHB



BLHI/BLHO





OUTPUT TORQUE (Nm VALUES GIVEN AS A GUIDE ONLY)

Ratios		1:1	2:1
INPUT SPEED (rpm)	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

DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-15%	On request

Part number	Ratios	Input shaft	Output shaft	Efficiency at 1000 (rpm)	Max. input speed (rpm)	Max. input speed (rpm)	Stock*	Price each
BLHB30-1	1:1	Bore	Bore	88%	3000	3000	✔	759,55 €
BLHB30-2	2:1	Bore	Bore	88%	3000	1500	✔	759,55 €
BLHI30-1	1:1	Bore	Shaft	88%	3000	3000	✔	693,77 €
BLHI30-2	2:1	Bore	Shaft	88%	3000	1500	-	693,77 €
BLHO30-2	2:1	Shaft	Bore	88%	3000	1500	✔	693,77 €

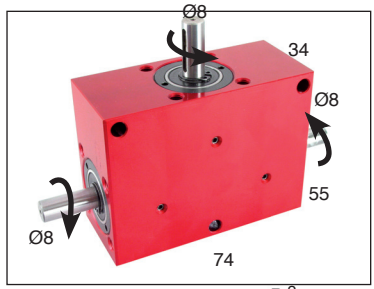
**Depending on availability - Dimensions in mm*

Right angled gearbox, dual output shafts

Torque up to 4.4Nm

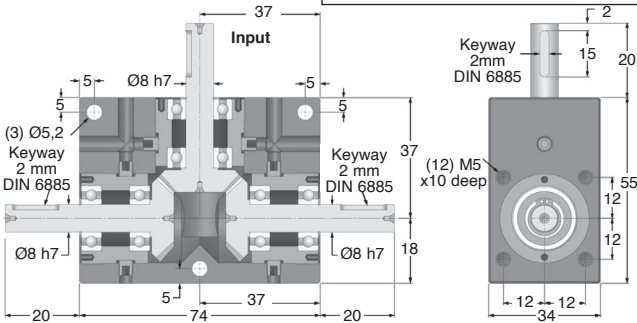
BLHM30

- **Input and two outputs have a reversed direction of rotation**
- Ratios of 1:1 to 2:1
- Output backlash ≤ 45' (0,75°)
- Max. speed: 3,000 rpm
- Materials: casing: anodised aluminium
  input and output: hardened stainless steel
- Weight: 0.35 kg



Options

- Can be modified to your specifications



Output torque Nm (Nm values given as a guide only)

Ratios	1:1	2:1
3000	1,65	1,32
2000	1,81	1,45
INPUT 1000	2,20	1,76
SPEED 500	2,51	2,00
(rpm) 100	3,38	2,70
50	3,70	3,00
10	4,40	3,54

Innovative ! Outputs rotate in opposite directions

DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-15%	On request

Part number	Ratio	Efficiency at 1000 rpm	Max. input speed (rpm)	Max. output speed (rpm)	Reflected inertia at input (kg.m²)	Stock*	Price each
BLHM30-1	1:1	88%	3000	3000	2,19 x 10^{-6}	✔	846,04 €
BLHM30-2	2:1	88%	3000	1500	5,00 x 10^{-7}	✔	846,04 €

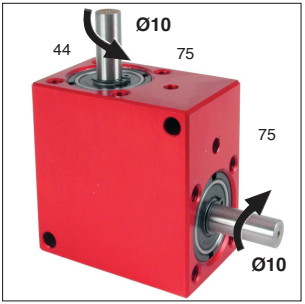
*Depending on availability - Dimensions in mm

Right angled gearbox

BLH40

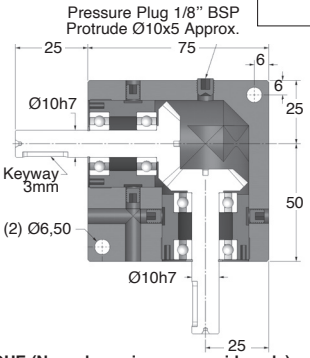
Torque up to 10.3Nm

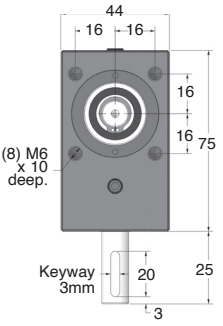
- ***Input and output rotate in opposite directions***
- *Ratios from 1:1 to 2:1*
- *Output backlash ≤ 45' (0,75°)*
- *Max. speed: 3,000 rpm*
- *Materials:*
  casing: anodised aluminium
  input and output: hardened stainless steel
- *Keyway conforms to DIN 6885*
- *Greased for life: Shell Gadus S2 V220AD 2*
- *Weight: 0.90 kg*



Options

- *Can be modified to your specifications*





OUTPUT TORQUE (Nm values given as a guide only)

Ratios		1:1	2:1
INPUT SPEED (rpm)	3000	4,00	3,00
	2000	4,40	3,40
	1000	5,10	4,00
	500	5,80	4,60
	100	7,60	6,00
	50	8,50	6,30
	10	10,30	8,00

DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-15%	On request

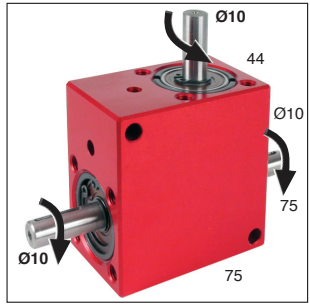
Part number	Ratio	Efficiency at 1000 rpm	Max. input speed (rpm)	Max. output speed (rpm)	Reflected inertia at input ($kg.m^2$)	Stock*	Price each
BLH40-1	1:1	88%	3000	3000	$6,42 \times 10^{-6}$	✔	719,55 €
BLH40-2	2:1	88%	3000	1500	$1,40 \times 10^{-6}$	✔	719,55 €

**Depending on availability - Dimensions in mm*

Right angled gearbox

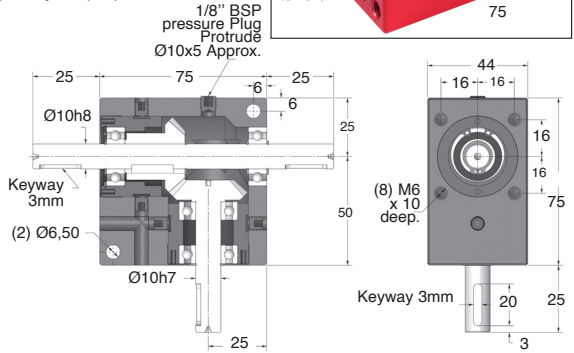
Torque up to 10.3Nm — BLHT40

- ***Through shaft offers both output directions***
- *Ratios from 1:1 to 2:1*
- *Output backlash ≤ 45' (0,75°)*
- *Max. speed: 3,000 rpm*
- *Materials:*
  casing: anodised aluminium
  input: hardened stainless steel
  output: unhardened stainless steel
- *Keyway conforms to DIN 6885*
- *Greased for life: Shell Gadus S2 V220AD 2*
- *Weight: 1 kg*



Options

- *Can be modified to your specifications*



OUTPUT TORQUE (Nm values given as a guide only)

Ratios		1:1	2:1
INPUT SPEED (rpm)	3000	4,00	3,00
	2000	4,40	3,40
	1000	5,10	4,00
	500	5,80	4,60
	100	7,60	6,00
	50	8,50	6,30
	10	10,30	8,00

DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-15%	On request

Part number	Ratio	Efficiency at 1000 rpm	Max. input speed (rpm)	Max. output speed (rpm)	Reflected inertia at input ($kg.m^2$)	Stock*	Price each
BLHT40-1	1:1	88%	3000	3000	$6,42 \times 10^{-6}$	✔	791,54 €
BLHT40-2	2:1	88%	3000	1500	$1,40 \times 10^{-6}$	✔	791,54 €

**Depending on availability - Dimensions in mm*

Right angled gearbox, bored shafts

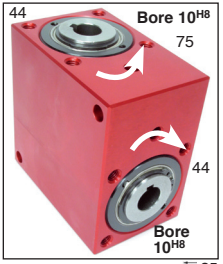
BLHB40
BLHI40
BLHO40

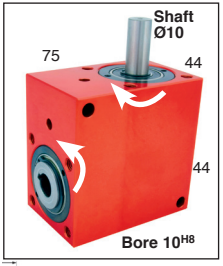
Torque up to 10.3Nm

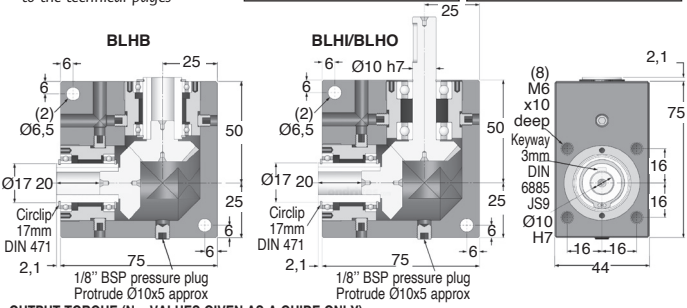
- ***Input and output rotate in opposite directions***
- *Ratio from 1:1 to 2:1*
- *Right angled gearbox with bored shafts*
- *Output backlash ≤ 45' (0,75°)*
- *Max. speed: 3,000 rpm*
- *Greased for life*
- *Materials:*
  casing: anodised aluminium
  gears: hardened stainless steel

Info.

- *Pressure plug 1/8"BSP*
- *For allowable loads, please refer to the technical pages*







OUTPUT TORQUE (Nm VALUES GIVEN AS A GUIDE ONLY)

Ratios		1:1	2:1
INPUT SPEED (rpm)	3000	4,00	3,00
	2000	4,40	3,40
	1000	5,10	4,00
	500	5,80	4,60
	100	7,60	6,00
	50	8,50	6,30
	10	10,30	8,00

DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-15%	On request

Part number	Ratios	Input shaft	Output shaft	Efficiency at 1000 (rpm)	Max. input speed (rpm)	Max. input speed (rpm)	Stock*	Price each
BLHB40-1	1:1	Bore	Bore	88%	3000	3000	✔	1 021,79 €
BLHB40-2	2:1	Bore	Bore	88%	3000	1500	-	1 021,79 €
BLHI40-1	1:1	Bore	Shaft	88%	3000	3000	✔	933,24 €
BLHI40-2	2:1	Bore	Shaft	88%	3000	1500	✔	933,24 €
BLHO40-2	2:1	Shaft	Bore	88%	3000	1500	✔	933,24 €

**Depending on availability - Dimensions in mm*

★★★ Right angled gearbox, dual output shafts

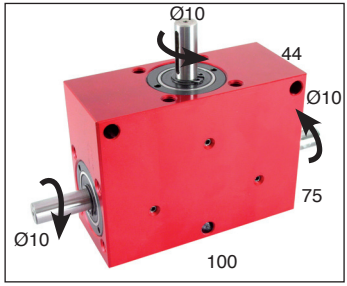
Torque up to 10.3Nm

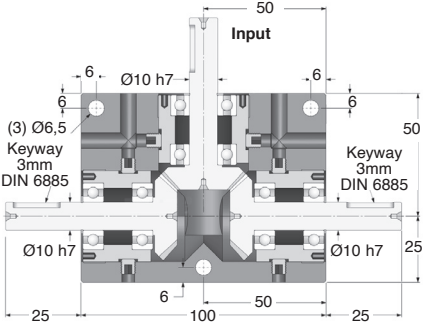
BLHM40

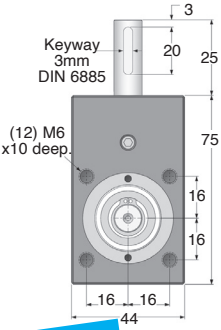
- ***Input and two outputs have a reversed sense of rotation***
- *Ratios of 1:1 to 2:1*
- *Output backlash ≤ 45' (0,75°)*
- *Max. speed: 3,000 rpm*
- *Materials: casing: anodised aluminium input and output: hardened stainless steel*
- *Weight: 1.1 kg*

Options

- *Can be modified to your specifications*







Output torque Nm (Nm values given as a guide only)

Ratios	1:1	2:1
3000	4,00	3,00
2000	4,40	3,40
INPUT 1000	5,10	4,00
SPEED 500	5,80	4,60
(rpm) 100	7,60	6,00
50	8,50	6,30
10	10,30	8,00

Innovative ! Outputs rotate in different directions

DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-15%	On request

Part number	Ratio	Efficiency at 1000 rpm	Max. input speed (rpm)	Max. output speed (rpm)	Reflected inertia at input (kg.m²)	Stock*	Price each
BLHM40-1	1:1	88%	3000	3000	6,43 x 10^{-6}	-	1 079,44 €
BLHM40-2	2:1	88%	3000	1500	1,40 x 10^{-6}	-	1 079,44 €

**Depending on availability - Dimensions in mm*

Right angled gearbox

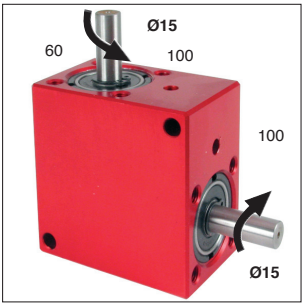
BLH50

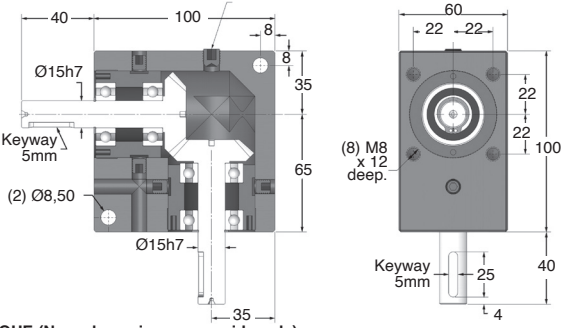
Torque up to 30Nm

- ***Input and output rotate in opposite directions***
- *Ratios from 1:1 to 2:1*
- *Output backlash ≤ 45' (0,75°)*
- *Max. speed: 3,000 rpm*
- *Materials:*
  casing: anodised aluminium
  input and output: hardened steel
- *Keyway conforms to DIN 6885*
- *Greased for life: Shell Gadus S2 V220AD 2*
- *Weight: 2.20 kg*

Options

- *Can be modified to your specifications*





OUTPUT TORQUE (Nm values given as a guide only)

Ratios		1:1	2:1
INPUT SPEED (rpm)	3000	11,50	7,70
	2000	13,20	8,70
	1000	15,90	10,20
	500	17,50	11,60
	100	23,00	15,00
	50	25,00	17,00
	10	30,00	20,00

DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-15%	On request

Part number	Ratio	Efficiency at 1000 rpm	Max. input speed (rpm)	Max. output speed (rpm)	Reflected inertia at input ($kg.m^2$)	Stock*	Price each
BLH50-1	1:1	88%	3000	3000	$4{,}76 \times 10^{-5}$	✔	1 082,56 €
BLH50-2	2:1	88%	3000	1500	$1{,}25 \times 10^{-5}$	✔	1 082,56 €

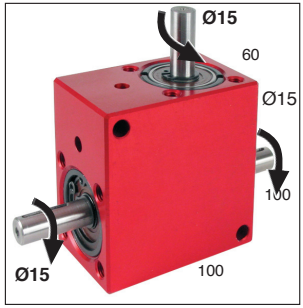
**Depending on availability - Dimensions in mm*

Right angled gearbox, dual output shafts

Torque up to 30Nm

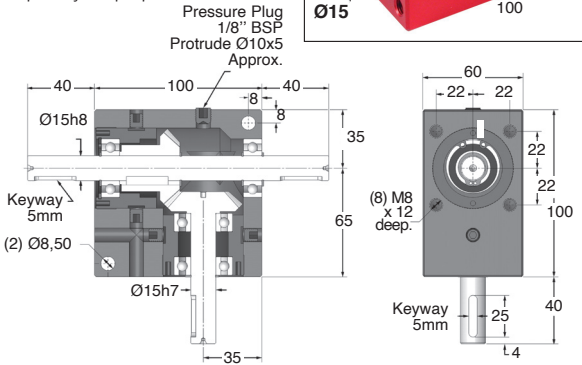
BLHT50

- ***Trough-shaft offer both output directions***
- *Ratios from 1:1 to 2:1*
- *Output backlash ≤ 45' (0,75°)*
- *Max. speed: 3,000 rpm*
- *Materials:*
  casing: anodised aluminium
  input: hardened steel
  output: unhardened steel
- *Keyway conforms to DIN 6885*
- *Greased for life: Shell Gadus S2 V220AD 2*
- *Weight: 2.31 kg*



Options

- *Can be modified to your specifications*



OUTPUT TORQUE (Nm values given as a guide only)

Ratios		1:1	2:1
INPUT SPEED (rpm)	3000	11,50	7,70
	2000	13,20	8,70
	1000	15,90	10,20
	500	17,50	11,60
	100	23,00	15,00
	50	25,00	17,00
	10	30,00	20,00

DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-15%	On request

Part number	Ratio	Efficiency at 1000 rpm	Max. input speed (rpm)	Max. output speed (rpm)	Reflected inertia at input ($kg.m^2$)	Stock*	Price each
BLHT50-1	1:1	88%	3000	3000	$4{,}76 \times 10^{-5}$	✔	1 188,51 €
BLHT50-2	2:1	88%	3000	1500	$1{,}25 \times 10^{-5}$	-	1 188,51 €

**Depending on availability - Dimensions in mm*

Right angled gearbox, bored shafts

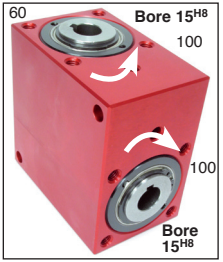
BLHB50
BLHI50
BLHO50

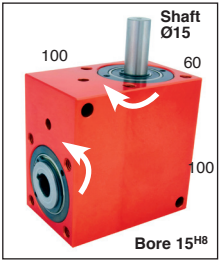
Torque up to 30Nm

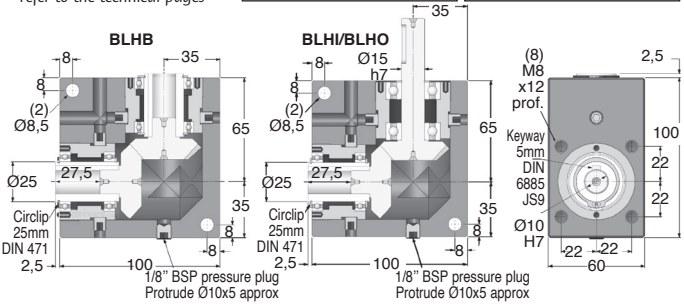
- ***Input and output rotate in opposite directions***
- *Ratio from 1:1 to 2:1*
- *Right angled gearbox with bored shafts*
- *Output backlash ≤ 45' (0,75°)*
- *Max. speed: 3,000 rpm*
- *Greased for life*
- *Materials:*
  casing: anodised aluminium
  gears: case hardened steel

Info.

- *Pressure plug 1/8"BSP*
- *For allowable loads, please refer to the technical pages*







OUTPUT TORQUE (Nm VALUES GIVEN AS A GUIDE ONLY)

Ratios		1:1	2:1
INPUT SPEED (rpm)	3000	11,50	7,70
	2000	13,20	8,70
	1000	15,90	10,20
	500	17,50	11,60
	100	23,00	15,00
	50	25,00	17,00
	10	30,00	20,00

DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-15%	On request

Part number	Ratios	Input shaft	Output shaft	Efficiency at 1000 (rpm)	Max. input speed (rpm)	Max. input speed (rpm)	Stock*	Price each
BLHB50-1	1:1	Bore	Bore	88%	3000	3000	✔	1 537,36 €
BLHB50-2	2:1	Bore	Bore	88%	3000	1500	-	1 537,36 €
BLHI50-1	1:1	Bore	Shaft	88%	3000	3000	✔	1 404,20 €
BLHI50-2	2:1	Bore	Shaft	88%	3000	1500	-	1 404,20 €
BLHO50-2	2:1	Shaft	Bore	88%	3000	1500	-	1 404,20 €

**Depending on availability - Dimensions in mm*

Right angled gearbox, dual output shafts

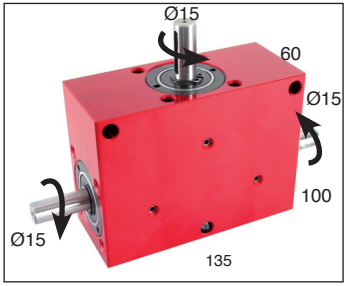
Torque up to 30Nm

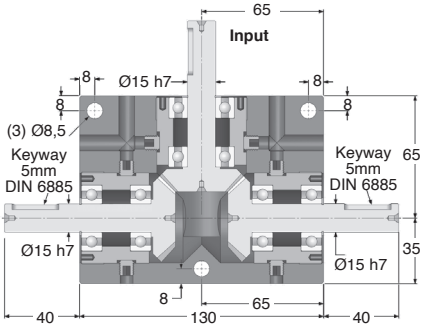
BLHM50

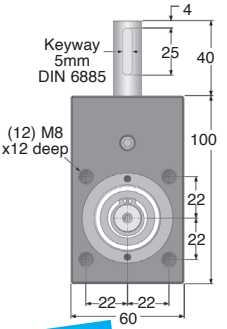
- ***Through-shaft offers both output directions***
- *Ratios of 1:1 to 2:1*
- *Output backlash ≤ 45' (0,75°)*
- *Max. speed: 3,000 rpm*
- *Materials: casing: anodised aluminium*
  input: hardened steel,
  output: hardened steel
- *Weight: 2.3 kg*

Options

- *Can be modified to your specifications*







Output torque Nm (Nm values given as a guide only)

Ratios		1:1	2:1
INPUT SPEED (rpm)	3000	11,50	7,70
	2000	13,20	8,70
	1000	15,90	10,20
	500	17,50	11,60
	100	23,00	15,00
	50	25,00	17,00
	10	30,00	20,00

Innovative ! Outputs rotate in different directions

DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-15%	On request

Part number	Ratio	Efficiency at 1000 rpm	Max. input speed (rpm)	Max. output speed (rpm)	Reflected inertia at input (kg.m²)	Stock*	Price each
BLHM50-1	1:1	88%	3000	3000	4,76 x 10^{-5}	✔	1 624,03 €
BLHM50-2	2:1	88%	3000	1500	1,25 x 10^{-5}	✔	1 624,03 €

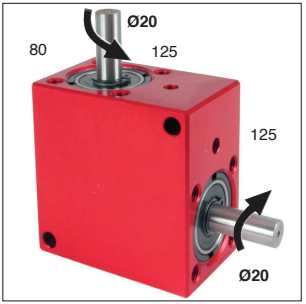
**Depending on availability - Dimensions in mm*

Right angled gearbox

BLH60

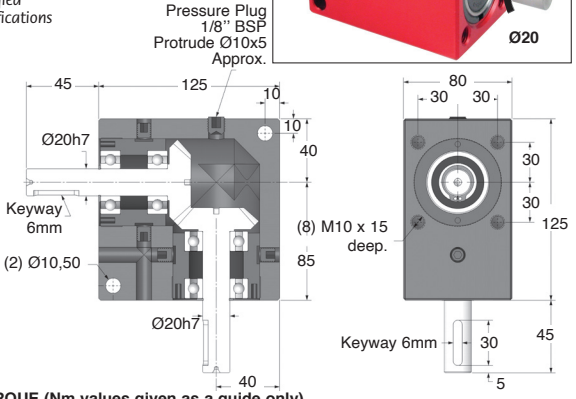
Torque up to 70Nm

- ***Input and output rotate in opposite directions***
- *Ratios from 1:1 to 2:1*
- *Output backlash ≤ 45' (0,75°)*
- *Max. speed: 3,000 rpm*
- *Materials:*
  casing: anodised aluminium
  input and output: hardened steel
- *Keyway conforming to DIN 6885*
- *Greased for life: Shell Gadus S2 V220AD 2*
- *Weight: 4.5 kg*



Options

- *Can be modified to your specifications*



OUTPUT TORQUE (Nm values given as a guide only)

Ratios		1:1	2:1
INPUT SPEED (rpm)	3000	26,00	19,00
	2000	30,00	22,00
	1000	35,00	25,00
	500	35,00	25,00
	100	53,00	38,00
	50	57,00	43,00
	10	70,00	52,00

DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-15%	On request

Part number	Ratio	Efficiency at 1000 rpm	Max. input speed (rpm)	Max. output speed (rpm)	Reflected inertia at input (kg.m²)	Price each
BLH60-1	1:1	88%	3000	3000	1,99 x 10^{-4}	1 232,37 €
BLH60-2	2:1	88%	3000	1500	3,87 x 10^{-5}	1 232,37 €

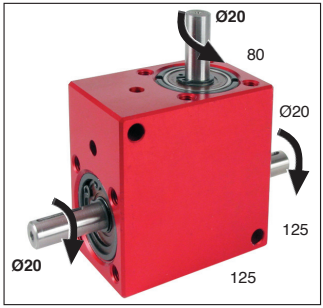
**Depending on availability - Dimensions in mm*

Right angled gearbox, dual output shafts

Torque up to 70Nm

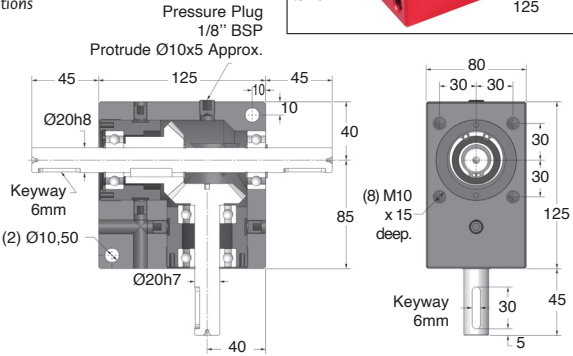
BLHT60

- ***Through shaft offers both output directions***
- *Ratios from 1:1 to 2:1*
- *Output backlash ≤ 45' (0,75°)*
- *Max. speed: 3,000 rpm*
- *Materials:*
  casing: anodised aluminium
  input: hardened steel
  output: unhardened steel
- *Keyway conforms to DIN 6885*
- *Greased for life: Shell Gadus S2 V220AD 2*
- *Weight: 4.75 kg*



Options

- *Can be modified to your specifications*



OUTPUT TORQUE (Nm values given as a guide only)

Ratios		1:1	2:1
INPUT SPEED (rpm)	3000	26,00	19,00
	2000	30,00	22,00
	1000	35,00	25,00
	500	35,00	25,00
	100	53,00	38,00
	50	57,00	43,00
	10	70,00	52,00

DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-15%	On request

Part number	Ratio	Efficiency at 1000 rpm	Max. input speed (rpm)	Max. output speed (rpm)	Reflected inertia at input ($kg.m^2$)	Price each
BLHT60-1	1:1	88%	3000	3000	$1,99 \times 10^{-4}$	1 355,59 €
BLHT60-2	2:1	88%	3000	1500	$3,87 \times 10^{-5}$	1 355,59 €

**Depending on availability - Dimensions in mm*

Right angled gearbox, bored shafts ★★★

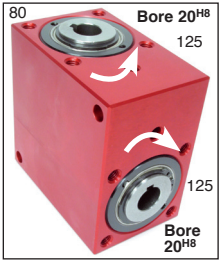
BLHB60
BLHI60
BLHO60

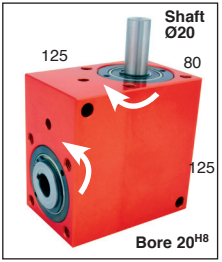
Torque up to 70Nm

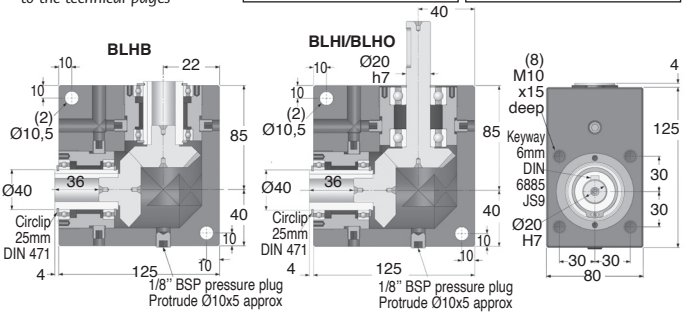
- ***Input and output rotate in opposite directions***
- *Ratio from 1:1 to 2:1*
- *Right angled gearbox with bored shafts*
- *Output backlash ≤ 45' (0,75°)*
- *Max. speed: 3,000 rpm*
- *Greased for life*
- *Materials:*
  casing: anodised aluminium
  gears: case hardened steel

Info.

- *Pressure plug 1/8"BSP*
- *For allowable loads, please refer to the technical pages*







OUTPUT TORQUE (Nm VALUES GIVEN AS A GUIDE ONLY)

Ratios		1:1	2:1
INPUT SPEED (rpm)	3000	26,00	19,00
	2000	30,00	22,00
	1000	35,00	25,00
	500	40,00	29,00
	100	53,00	38,00
	50	57,00	43,00
	10	70,00	52,00

Part number	Ratios	Input shaft	Output shaft	Efficiency at 1000 (rpm)	Max. input speed (rpm)	Max. input speed (rpm)	Stock*	Price each
BLHB60-1	1:1	Bore	Bore	88%	3000	3000	✔	1 749,93 €
BLHB60-2	2:1	Bore	Bore	88%	3000	1500	✔	1 749,93 €
BLHI60-1	1:1	Bore	Shaft	88%	3000	3000	✔	1 598,45 €
BLHI60-2	2:1	Bore	Shaft	88%	3000	1500	-	1 598,45 €
BLHO60-2	2:1	Shaft	Bore	88%	3000	1500	-	1 598,45 €

**Depending on availability - Dimensions in mm*

★★★ Right angled gearbox, dual output shafts

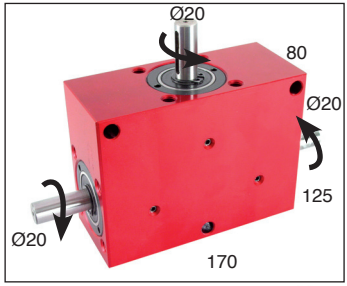
Torque up to 70Nm

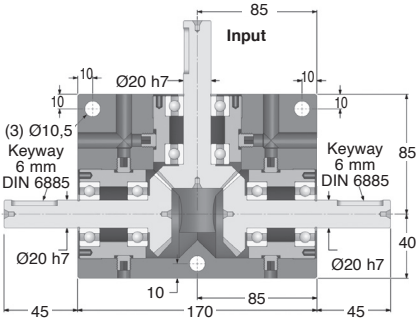
BLHM60

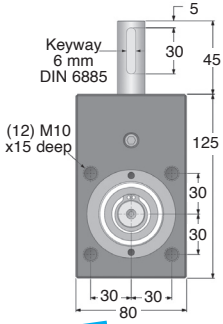
- ***Input and two outputs have a reversed sense of direction***
- *Ratios of 1:1 to 2:1*
- *Output backlash ≤ 45' (0,75°)*
- *Max. speed: 4,000 rpm*
- *Materials: casing: anodised aluminium*
  input: hardened steel,
  output: hardened steel
- *Weight: 5.20 kg*

Options

- *Can be modified to your specifications*







Output torque Nm (Nm values given as a guide only)

Ratios		1:1	2:1
INPUT SPEED (rpm)	3000	26,00	19,00
	2000	30,00	22,00
	1000	35,00	25,00
	500	40,00	29,00
	100	53,00	38,00
	50	57,00	43,00
	10	70,00	52,00

Innovative ! Outputs rotate in different directions

DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-15%	On request

Part number	Ratio	Efficiency at 1000 rpm	Max. input speed (rpm)	Max. output speed (rpm)	Reflected inertia at input ($kg.m^2$)	Stock*	Price each
BLHM60-1	1:1	88%	3000	3000	$1,99 \times 10^{-4}$	-	1 848,73 €
BLHM60-2	2:1	88%	3000	1500	$3,87 \times 10^{-5}$	-	1 848,73 €

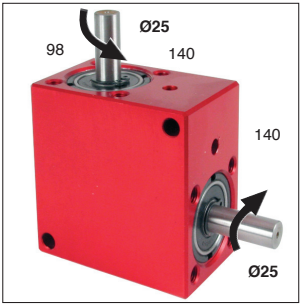
**Depending on availability - Dimensions in mm*

Right angled gearbox

BLH70

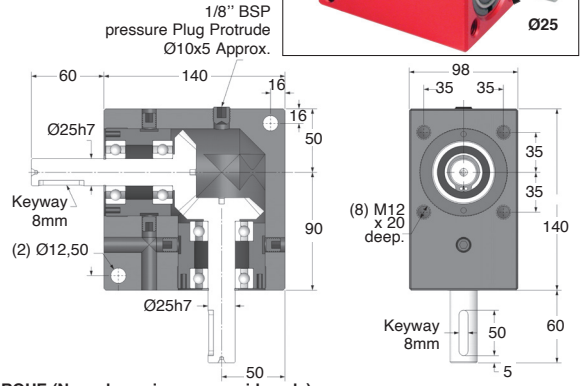
Torque up to 128Nm

- ***Input and output rotate in opposite directions***
- *Ratios from 1:1 to 2:1*
- *Output backlash ≤ 45' (0,75°)*
- *Max. speed: 3,000 rpm*
- *Materials:*
  casing: anodised aluminium
  input and output: hardened steel
- *Keyway conforms to DIN 6885*
- *Greased for life: Shell Gadus S2 V220AD 2*
- *Weight: 7.05 kg*



Options

- *Can be modified to your specifications*



OUTPUT TORQUE (Nm values given as a guide only)

Ratios		1:1	2:1
INPUT SPEED (rpm)	3000	43	26
	2000	47	30
	1000	51	34
	500	64	38
	100	85	51
	50	94	60
	10	128	77

DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-15%	On request

Part number	Ratio	Efficiency at 1000 rpm	Max. input speed (rpm)	Max. output speed (rpm)	Reflected inertia at input (kg.m²)	Price each
BLH70-1	1:1	88%	3000	3000	$4,15 \times 10^{-4}$	2 473,53 €
BLH70-2	2:1	88%	3000	1500	$1,12 \times 10^{-4}$	2 473,53 €

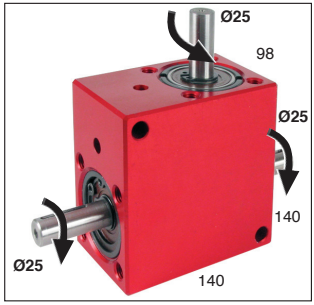
Dimensions in mm

Right angled gearbox, dual output shafts

Torque up to 128Nm

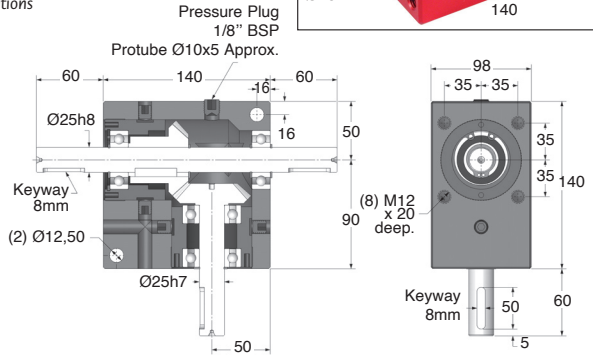
BLHT70

- ***Trough-shaft offers both output directions***
- *Ratios from 1:1 to 2:1*
- *Output backlash ≤ 45' (0,75°)*
- *Max. speed: 3,000 rpm*
- *Materials:*
  casing: anodised aluminium
  input: hardened steel
  output: unhardened steel:
- *Keyway conforms to DIN 6885*
- *Greased for life: Shell Gadus S2 V220AD 2*
- *Weight: 7.20 kg*



Options

- *Can be modified to your specifications*



OUTPUT TORQUE (Nm values given as a guide only)

Ratios		1:1	2:1
INPUT SPEED (rpm)	3000	43	26
	2000	47	30
	1000	51	34
	500	64	38
	100	85	51
	50	94	60
	10	128	77

DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-15%	On request

Part number	Ratio	Efficiency at 1000 rpm	Max. input speed (rpm)	Max. output speed (rpm)	Reflected inertia at input ($kg.m^2$)	Price each
BLHT70-1	1:1	88%	3000	3000	$4,15 \times 10^{-4}$	2 701,58 €
BLHT70-2	2:1	88%	3000	1500	$1,12 \times 10^{-4}$	2 701,58 €

Dimensions in mm

Right angle gearbox, single or dual output

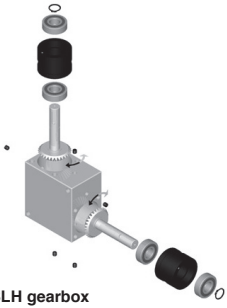
BLH, BLHT, BL, BLHB

Technical information

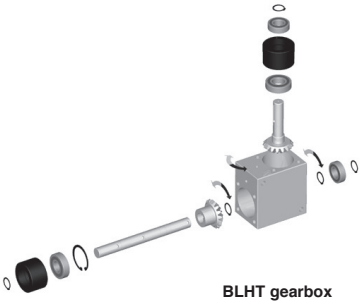
- ***Speed ratio: from 1:1 to 4:1***
- *Materials :*
  housing anodised aluminium
  case hardened steel gears or hardened stainless steel
- *Max. speed: 2,000 to 3,000 rpm on input depending on model*
- *Backlash: ≤ 45' (0,75°) on output*
- *Lubrification: greased for life (Shell Gadus S2 V220AD 2 grease)*
- *Guarantee: 13 months*
- *Tolerances : ground shafts h7, Ra 0.8*
- *Lubrication temperature : max operating 60°C*
- *Cooling may be needed dependent on application*

BLH range

BLHT range



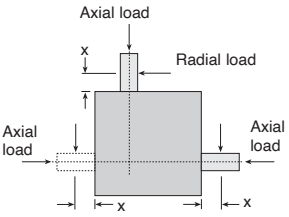
BLH gearbox



BLHT gearbox

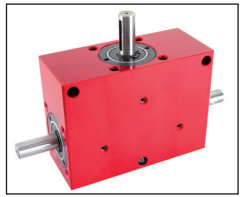
ADMISSIBLE LOADS

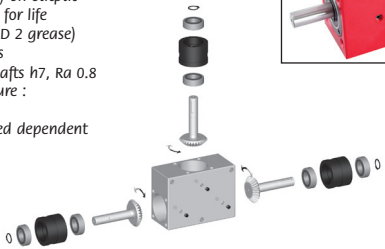
Part number		Distance 'X' (mm)	Radial load (N)	Axial load (N)
BLH20	BLHT20	6	10	5
BLH30	BLHT30	10	30	20
BLH40	BLHT40	12	60	50
BLH50	BLHT50	20	200	100
BLH60	BLHT60	25	300	150
BLH70	BLHT70	30	500	200



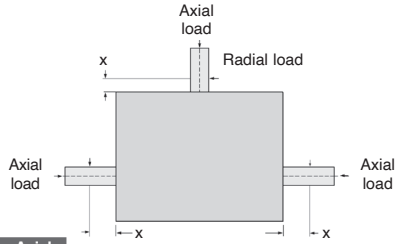
Data given based on input speed of 1,000 rpm.
Values given as an indication only.

- ***Speed ratio: from 1:1 to 2:1***
- *Materials :*
  housing anodised aluminium
  case hardened steel gears
- *Max. speed: 2,000 to 3,000 rpm on input depending on model*
- *Backlash: ≤ 45' (0,75°) on output*
- *Lubrification: greased for life (Shell Gadus S2 V220AD 2 grease)*
- *Guarantee: 13 months*
- *Tolerances: ground shafts h7, Ra 0.8*
- *Lubrication temperature : max operating 60°C*
- *Cooling may be needed dependent on application*





BLHM series



ADMISSIBLE LOADS

Part number	Distance 'X' (mm)	Radial load (N)	Axial load (N)
BLHM20	6	10	5
BLHM30	10	30	20
BLHM40	12	60	50
BLHM50	20	200	100
BLHM60	25	300	150
BLHM70	30	500	200

Data given based on input speed of 1,000 rpm.
Values given as an indication only.