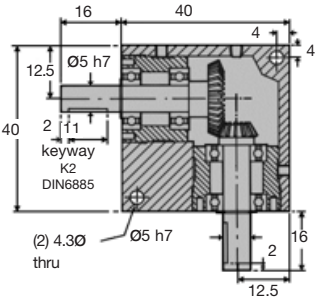
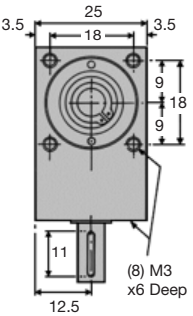
Heavy Duty, Hardened Bevel

HPCBLH20

WEIGHT	0.11 Kg
BACKLASH	1° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	4000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
BEVEL MAT'L	655M13 Case/HD (EN36)
GREASED FOR LIFE	Shell Alvania





N.m. Output Torque	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

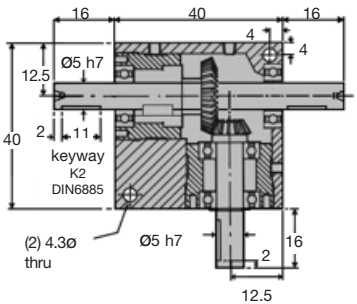
DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

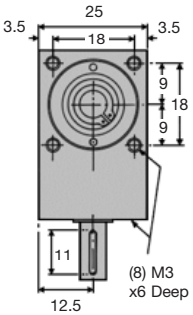
PART NUMBER	Ratio	% Efficiency	Max Input Speed	Max Output Speed	Module	PRICE EACH 1-5
HPCBLH20-1	1:1	88	4000	4000	0.6	**£129.67**
HPCBLH20-2	2:1	88	4000	2000	0.6	**£129.67**

Other Info.
Testing in your application 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.

HPCBLHT20 — Heavy Duty, Hardened Bevel Tee

WEIGHT	0.12 Kg
BACKLASH	1° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	4000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
BEVEL MAT'L	655M13 Case/HD (EN36)
GREASED FOR LIFE	Shell Alvania





N.m. Output Torque	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

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

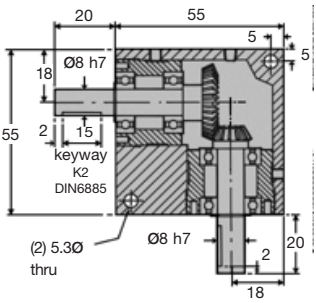
PART NUMBER	Ratio	% Efficiency	Max Input Speed	Max Output Speed	Module	PRICE EACH 1-5
HPCBLHT20-1	1:1	88	4000	4000	0.6	**£142.64**
HPCBLHT20-2	2:1	88	4000	2000	0.6	**£142.64**

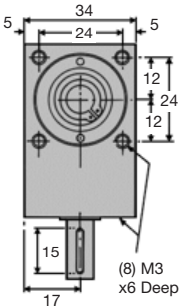
Other Info.
Testing in your application is necessary.
You will need to assess duty, cycles and confirm gearbox suitability with your own calculations.
Torque figures are to be used for guidance only.

Heavy Duty, Hardened Bevel

HPCBLH30

WEIGHT	0.28 Kg
BACKLASH (approx.)	1° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	4000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
BEVEL MAT'L	655M13 Case/HD (EN36)
GREASED FOR LIFE	Shell Alvania





N.m.	RPM Input	Reduction ratio 1:1	2:1
Output Torque	**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

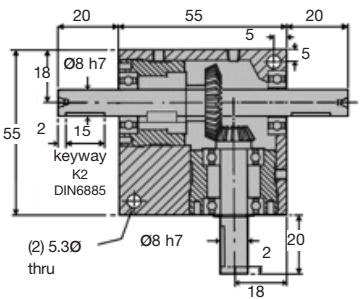
DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

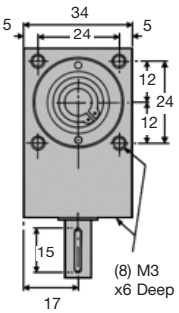
PART NUMBER	Ratio	% Efficiency	Max Input Speed	Max Output Speed	Module	PRICE EACH 1-5
HPCBLH30-1	1:1	88	4000	4000	0.8	**£167.66**
HPCBLH30-2	2:1	88	4000	2000	0.8	**£167.66**

Other Info.
Testing in your application 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.

HPCBLHT30 — Heavy Duty, Hardened Bevel Tee

WEIGHT	0.30 Kg
BACKLASH (approx.)	1° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	4000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
BEVEL MAT'L	655M13 Case/HD (EN36)
GREASED FOR LIFE	Shell Alvania





N.m. Output Torque	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

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

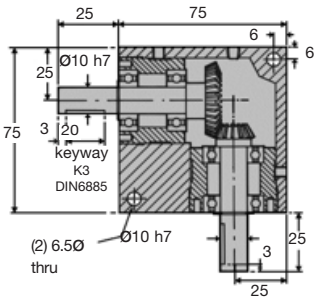
PART NUMBER	Ratio	% Efficiency	Max Input Speed	Max Output Speed	Module	PRICE EACH 1-5
HPCBLHT30-1	1:1	88	4000	4000	0.8	**£184.44**
HPCBLHT30-2	2:1	88	4000	2000	0.8	**£184.44**

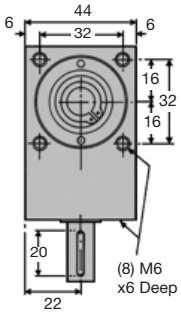
Other Info.
Testing in your application is necessary.
You will need to assess duty, cycles and confirm gearbox suitability with your own calculations.
Torque figures are to be used for guidance only.

Heavy Duty, Hardened Bevel

HPCBLH40

WEIGHT	0.9 Kg
BACKLASH (approx.)	1º approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	4000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
BEVEL MAT'L	655M13 Case/HD (EN36)
GREASED FOR LIFE	Shell Alvania





N.m.	RPM Input	Reduction ratio 1:1	Reduction ratio 2:1
Output Torque	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

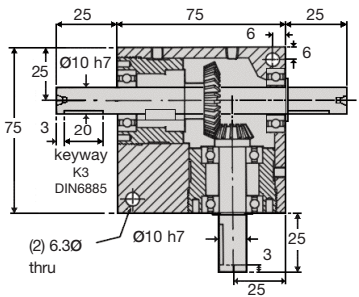
DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

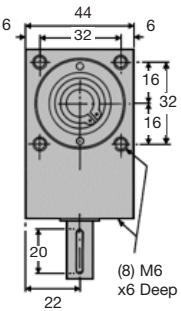
PART NUMBER	Ratio	% Efficiency	Max Input Speed	Max Output Speed	Module	PRICE EACH 1-5
HPCBLH40-1	1:1	88	4000	4000	1	£225.56
HPCBLH40-2	2:1	88	4000	2000	1	£225.56

Other Info.
Testing in your application 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.

HPCBLHT40 — Heavy Duty, Hardened Bevel Tee

WEIGHT	1.0 Kg
BACKLASH (approx.)	1° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	4000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
BEVEL MAT'L	655M13 Case/HD (EN36)
GREASED FOR LIFE	Shell Alvania





N.m. Output Torque	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

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

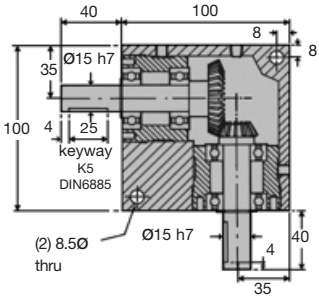
PART NUMBER	Ratio	% Efficiency	Max Input Speed	Max Output Speed	Module	PRICE EACH 1-5
HPCBLHT40-1	1:1	88	4000	4000	1	**£248.14**
HPCBLHT40-2	2:1	88	4000	2000	1	**£248.14**

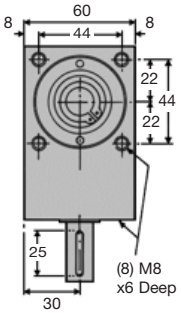
Other Info.
Testing in your application is necessary.
You will need to assess duty, cycles and confirm gearbox suitability with your own calculations.
Torque figures are to be used for guidance only.

Heavy Duty, Hardened Bevel

HPCBLH50

WEIGHT	2.2 Kg
BACKLASH (approx.)	1° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	3000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
BEVEL MAT'L	655M13 Case/HD (EN36)
GREASED FOR LIFE	Shell Alvania





N.m.	RPM Input	Reduction ratio 1:1	2:1
Output Torque	**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

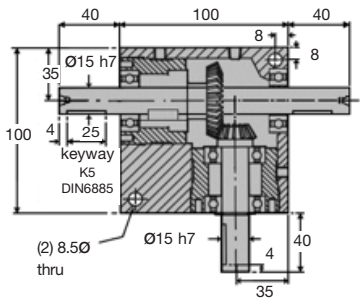
DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

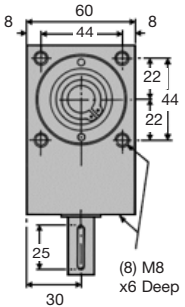
PART NUMBER	Ratio	% Efficiency	Max Input Speed	Max Output Speed	Module	PRICE EACH 1-5
HPCBLH50-1	1:1	88	3000	3000	1.5	**£339.39**
HPCBLH50-2	2:1	88	3000	1500	1.5	**£339.39**

Other Info.
Testing in your application 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.

HPCBLHT50 Heavy Duty, Hardened Bevel Tee

WEIGHT	2.31 Kg
BACKLASH (approx.)	1° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	3000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
BEVEL MAT'L	655M13 Case/HD (EN36)
GREASED FOR LIFE	Shell Alvania





N.m. Output Torque	RPM Input	Reduction ratio 1:1	Reduction ratio 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

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

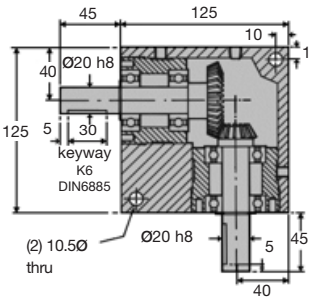
PART NUMBER	Ratio	% Efficiency	Max Input Speed	Max Output Speed	Module	PRICE EACH 1-5
HPCBLHT50-1	1:1	88	3000	3000	1.5	**£372.56**
HPCBLHT50-2	2:1	88	3000	1500	1.5	**£372.56**

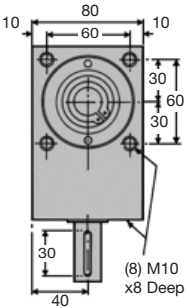
Other Info.
Testing in your application is necessary.
You will need to assess duty, cycles and confirm gearbox suitability with your own calculations.
Torque figures are to be used for guidance only.

Heavy Duty, Hardened Bevel

HPCBLH60

WEIGHT	4.5 Kg
BACKLASH (approx.)	1° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	3000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
BEVEL MAT'L	655M13 Case/HD (EN36)
GREASED FOR LIFE	Shell Alvania





N.m.	RPM Input	Reduction ratio 1:1	2:1
Output Torque	**3000**	26	19
	2000	30	22
	1000	35	25
	500	40	29
	100	53	38
	50	57	43
	10	70	52

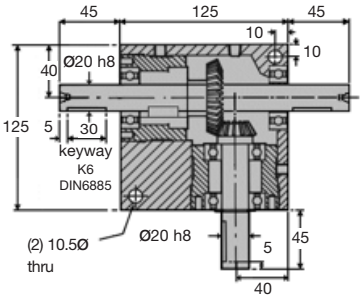
DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

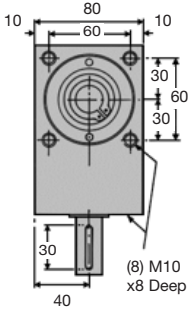
PART NUMBER	Ratio	% Efficiency	Max Input Speed	Max Output Speed	Module	PRICE EACH 1-5
HPCBLH60-1	1:1	88	3000	3000	2	**£386.32**
HPCBLH60-2	2:1	88	3000	1500	2	**£386.32**

Other Info.
Testing in your application 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.

HPCBLHT60 — Heavy Duty, Hardened Bevel Tee

WEIGHT	4.75 Kg
BACKLASH (approx.)	1° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	3000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
BEVEL MAT'L	655M13 Case/HD (EN36)
GREASED FOR LIFE	Shell Alvania





N.m. Output Torque	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

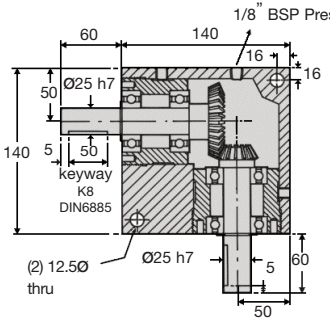
DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

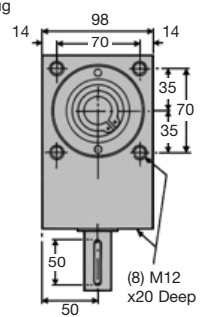
PART NUMBER	Ratio	% Efficiency	Max Input Speed	Max Output Speed	Module	PRICE EACH 1-5
HPCBLHT60-1	1:1	88	3000	3000	2	**£424.94**
HPCBLHT60-2	2:1	88	3000	1500	2	**£424.94**

Other Info.
Testing in your application 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.

Heavy Duty, Hardened Bevel & Bevel Tee HPCBLH70

WEIGHT	7.05 Kg
BACKLASH (approx.)	1° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	3000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
BEVEL MAT'L	655M13 Case/HD (EN36)
GREASED FOR LIFE	Shell Alvania





N.m.	RPM Input	Reduction ratio 1:1	2:1
Output Torque	3000	43	26
	2000	47	30
	1000	51	34
	500	64	38
	100	85	51
	50	94	60
	10	128	77

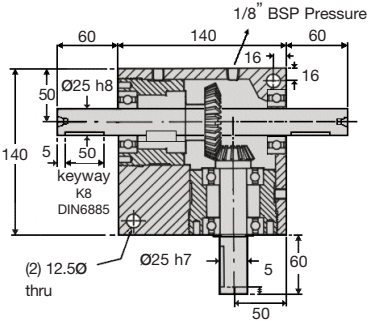
DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

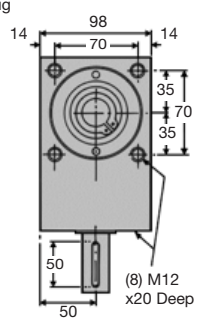
PART NUMBER	Ratio	% Efficiency	Max Input Speed	Module	PRICE EACH 1-5
HPCBLH70-1	1:1	88	3000	2	£825.25
HPCBLH70-2	2:1	88	3000	2	£825.25

Other Info.
Testing in your application 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.

HPCBLHT70 Heavy Duty, Hardened Bevel & Bevel Tee

WEIGHT	7.20 Kg
BACKLASH (approx.)	1° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	3000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
BEVEL MAT'L	655M13 Case/HD (EN36)
GREASED FOR LIFE	Shell Alvania





N.m. Output Torque	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

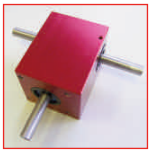
DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	% Efficiency	Max Input Speed	Module	PRICE EACH 1-5
HPCBLHT70-1	1:1	88	3000	2	**£849.00**
HPCBLHT70-2	2:1	88	3000	2	**£849.00**

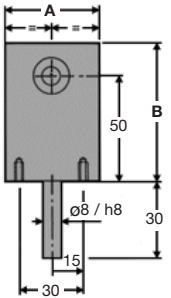
Other Info.
Testing in your application is necessary.
You will need to assess duty, cycles and confirm gearbox suitability with your own calculations.
Torque figures are to be used for guidance only.

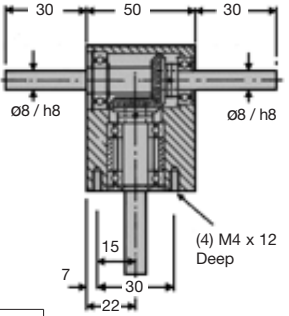
Bevel Tee, Right Angled

HPCBL8



WEIGHT	0.56Kg - 1.1 Kg
BACKLASH (approx.)	1° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	2000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
GEAR MAT'L	080M40 (EN8)
GREASED FOR LIFE	Shell Alvania





N.m. Output Torque	RPM Input	Reduction ratio 1:1	2:1	3:1	4:1
	2000	0.4	0.2	0.5	0.8
	1000	0.5	0.3	0.5	0.9
	500	0.5	0.3	0.6	1.1
	200	0.6	0.4	0.7	1.3
	100	0.7	0.4	0.8	1.4
	50	0.8	0.4	0.9	1.6
	10	1.0	0.6	1.2	2.0

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

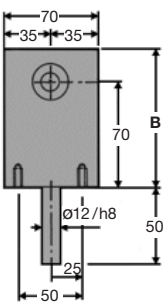
PART NUMBER	Ratio	% Effi. @ 1000 rpm	Max Input Speed	Max Output Speed	A	B	Module	N.m. OUTPUT @ 1000 rpm	PRICE EACH 1-5
HPCBL8-1	1:1	88	2000	2000	50	65	0.8	0.5	**£146.76**
HPCBL8-2	2:1	88	2000	1000	50	65	0.8	0.3	**£146.76**
HPCBL8-3	3:1	88	2000	666	50	75	0.8	0.5	**£146.76**
HPCBL8-4	4:1	88	2000	500	60	80	0.8	0.9	**£146.76**
HPCBL8XH	(1:1 - 4:1) hardened Gears = NM x 2								**£235.38**

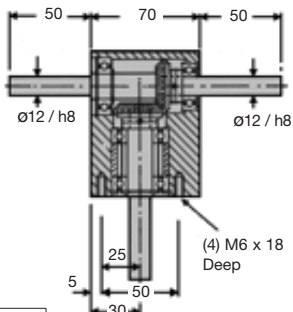
Other Info.
Testing in your application is necessary.
You will need to assess duty, cycles and confirm gearbox suitability with your own calculations.
Torque figures are to be used for guidance only.

HPCBL15

Bevel Tee, Right Angled

WEIGHT	1.5Kg - 2.1 Kg
BACKLASH (approx.)	1° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	2000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
GEAR MAT'L	080M40 (EN8)
GREASED FOR LIFE	Shell Alvania





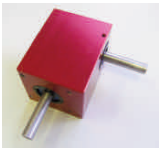
N.m. Output Torque	RPM Input	Reduction ratio 1:1	2:1	3:1	4:1
	2000	1.1	2.0	2.3	2.2
	1000	1.2	2.3	2.6	2.5
	500	1.4	2.7	3.0	2.8
	200	1.7	3.2	3.6	3.4
	100	2.0	3.5	4.0	3.7
	50	2.2	3.9	4.5	4.2
	10	2.9	5.0	6.0	5.5

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

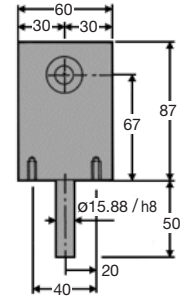
PART NUMBER	Ratio	% Effi. @ 1000 rpm	Max Input Speed	Max Output Speed	B	N.m. OUTPUT @ 1000 rpm	PRICE EACH 1-5
HPCBL15-1	1:1	88	2000	2000	90	2.3	**£202.58**
HPCBL15-2	2:1	88	2000	1000	105	1.2	**£202.58**
HPCBL15-3	3:1	88	2000	666	110	2.6	**£202.58**
HPCBL15-4	4:1	88	2000	500	120	2.5	**£244.41**
HPCBL15-XH	(1:1 - 4:1) Hardened Gears = NM x 2						**£300.59**

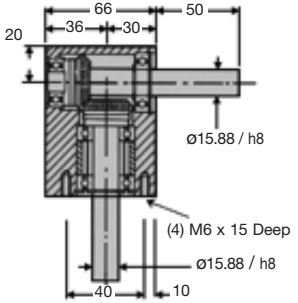
Other Info.
Testing in your application is necessary.
You will need to assess duty, cycles and confirm gearbox suitability with your own calculations.
Torque figures are to be used for guidance only.

Bevel Tee, Right Angled — HPCBL18



WEIGHT	1.3 Kg
BACKLASH (approx.)	1° approx
HOURS LIFE	12000 hr
MAX INPUT SPEED	2000 rpm
MATERIAL:	
CASE MAT'L	Aluminium HE30TF
GEAR MAT'L	080M40 (EN8)
GREASED FOR LIFE	Shell Alvania





N.m. Output Torque	RPM Input	Reduction ratio 1:1 Hard
	2000	4.0
	1000	4.6
	500	5.4
	200	6.4
	100	7.0
	50	7.8
	10	10.0

DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER	Ratio	% Effi. @ 1000 rpm	Max Input Speed	Max Output Speed	Module	N.m. OUTPUT @ 1000 rpm	PRICE EACH 1-5
HPCBL18-XH-1	1:1 Hard	88	2000	2000	1.5	4.6	**£205.37**

Other Info.
Testing in your application 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.

Technical

Backlash: 1° approx. on output shaft.
Torque: Torque figures are given as a guide only. Testing in your application is necessary.
Specials: Specials are available to any specification. Please consult our HPC Gears Technical Department.
Modifications: Are available on all our standard gearboxes. Please consult our HPC Gears Technical Department.
Keyways, Bores: All shafts are ground to h7 tolerance. Keyways are to DIN 6885 (sliding fit).
Lubrications: Gearboxes are greased for life with Shell Alvania HDX 2 high performance grease.
Ratios: 1:1 - 4:1. Specials are available. Please consult our HPC Gears Technical Department.

Materials

Case: Red anodised billet machined aluminium (6082 T6).
Bevel Shafts: Hardened alloy steel (655M13). Output on T type boxes shafts not hardened.
Bearing Caps: Mild steel with a chemically black coating.
Bearings: High quality single row ball bearings with rubber seals.

Lubrication, Mounting and Operating Conditions

- Operating temperature range 0° C to 70° C. Standard grease.
- Wider range of operating temperatures are achievable by fitting steel shielded bearings - 10° C to +120° C. Please consult our HPC Gears Technical Department for advice.
- Gearboxes are designed as speed reducers.
- Shafts should always be connected with a flexible coupling.
- Always mount drive components as close to gearbox body as possible to prevent damage to shaft and bearing.
- Avoid all impact to unit on installation as this may cause internal damage.
- We recommend all modifications are carried out by HPC Gears prior to gearbox assembly.
- Modifications undertaken by customers will invalidate the warranty.