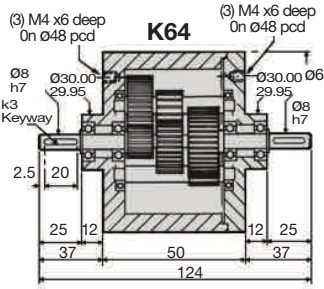
Double or Single Shafted

K64 / XK64

WEIGHT	2.6 Kg
BACKLASH	3°- 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	4000 rpm
	MATERIAL :
CASE MAT'L	Aluminium Body & Caps
GEAR MAT'L	High Carbon Steel 817M40 (EN24)
GREASED FOR LIFE	Shell Alvania



Input Bore, Tapped Holes & Register must be specified when ordering.

*Plain bore, no keyslot

N.m. Output Torque	RPM Input	Reduction ratio 2:1	3:1	4:1	5:1	6:1	8:1	9:1
	4000	0.99	0.96	0.86	1.13	1.05	1.19	1.20
	2000	1.26	1.22	1.08	1.32	1.22	1.35	1.38
	1000	1.49	1.44	1.28	1.50	1.35	1.56	1.61
	500	1.70	1.65	1.47	1.71	1.52	1.76	1.82
	200	1.98	1.92	1.71	2.03	1.80	2.09	2.15
	100	2.25	2.18	1.95	2.30	2.00	2.37	2.48
	50	2.52	2.45	2.19	2.52	2.30	2.70	2.85
	20	3.00	2.93	2.61	3.00	2.70	3.15	3.38

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

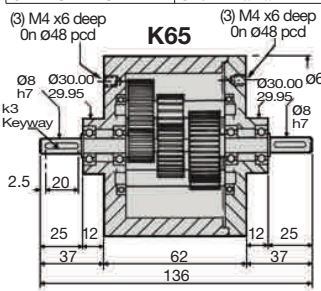
PART NUMBER		Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	Mod.	Standard Direction	PRICE EACH 1-5
HPCK64-2	**HPCXK64-2**	2:1	2000	1.49	0.7	Same	**£298.77**
HPCK64-3	**HPCXK64-3**	3:1	1333	1.44	0.7	Same	**£298.77**
HPCK64-4	**HPCXK64-4**	4:1	1000	1.28	0.7	Same	**£298.77**
HPCK64-5	**HPCXK64-5**	5:1	800	1.50	0.7	Same	**£298.77**
HPCK64-6	**HPCXK64-6**	6:1	666	1.35	0.7	Same	**£298.77**
HPCK64-8	**HPCXK64-8**	8:1	500	1.56	0.7	Same	**£298.77**
HPCK64-9	**HPCXK64-9**	9:1	444	1.61	0.7	Same	**£298.77**
HPCK64-SP or HPCXK64-SP		Special Ratios: Replace **SP** with required ratio					**£345.37**

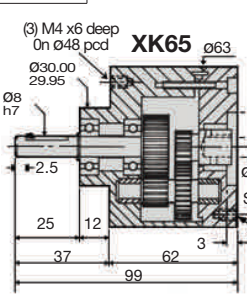
Other Info.

Efficiency @ 1000 R.P.M: 92%

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.

WEIGHT	0.3 Kg
BACKLASH	3°- 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	4000 rpm
MATERIAL :	
CASE MAT'L	Aluminium Body & Caps
GEAR MAT'L	High Carbon Steel 817M40 (EN24)
GREASED FOR LIFE	Shell Alvania





Input Bore, Tapped Holes & Register must be specified when ordering.

*Plain bore, no keyslot

N.m. Output Torque	RPM Input	Reduction ratio 10:1	12:1	15:1	18:1	20:1	24:1	27:1
	4000	1.05	1.19	1.20	1.22	1.22	1.37	1.38
	2000	1.22	1.35	1.37	1.40	1.40	1.56	1.58
	1000	1.35	1.56	1.58	1.65	1.65	1.74	1.80
	500	1.52	1.76	1.80	1.91	1.91	2.03	2.12
	200	1.80	2.09	2.10	2.45	2.45	2.37	2.45
	100	2.00	2.37	2.22	2.57	2.57	2.70	2.78
	50	2.30	2.72	2.79	3.03	3.03	2.93	3.00
	20	2.70	3.15	3.30	3.45	3.45	3.54	3.81

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

PART NUMBER		Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	Mod.	Standard Direction	PRICE EACH 1-5
HPCK65-10	**HPCXK65-10**	10:1	400	1.35	0.7	Opposite	**£346.66**
HPCK65-12	**HPCXK65-12**	12:1	333	1.56	0.7	Opposite	**£346.66**
HPCK65-15	**HPCXK65-15**	15:1	266	1.58	0.7	Opposite	**£346.66**
HPCK65-18	**HPCXK65-18**	18:1	222	1.65	0.7	Opposite	**£346.66**
HPCK65-20	**HPCXK65-20**	20:1	200	1.65	0.7	Opposite	**£346.66**
HPCK65-24	**HPCXK65-24**	24:1	166	1.74	0.7	Opposite	**£346.66**
HPCK65-27	**HPCXK65-27**	27:1	148	1.80	0.7	Opposite	**£346.66**
HPCK65-SP or HPCXK65-SP		Special Ratios: Replace **SP** with required ratio					**£396.93**

Other Info.

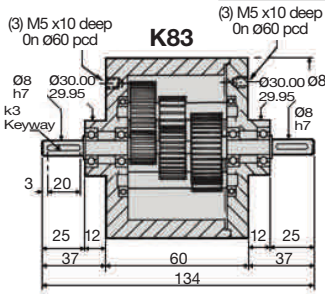
Efficiency @ 1000 R.P.M: 88%

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.

Double or Single Shafted

K83 / XK83

WEIGHT	2.6 Kg
BACKLASH	3°- 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	4000 rpm
MATERIAL :	
CASE MAT'L	Aluminium Body & Caps
GEAR MAT'L	High Carbon Steel 817M40 (EN24)
GREASED FOR LIFE	Shell Alvania



Input Bore, Tapped Holes & Register must be specified when ordering.

*Plain bore, no keyslot

N.m. Output Torque	RPM Input	Reduction ratio 2:1	3:1	4:1	5:1	6:1	9:1	10:1
	4000	1.13	1.31	1.45	1.45	1.40	1.52	1.54
	2000	1.45	1.54	1.70	1.70	1.68	1.73	1.75
	1000	1.70	1.82	1.97	1.91	1.90	1.98	2.05
	500	1.95	2.10	2.30	2.28	2.22	2.29	2.34
	200	2.26	2.41	2.62	2.60	2.52	2.61	2.68
	100	2.58	2.72	2.92	2.88	2.81	2.93	3.00
	50	2.90	3.18	3.48	3.46	3.45	3.55	3.60
	20	3.46	3.60	3.80	3.77	3.76	3.81	3.90

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

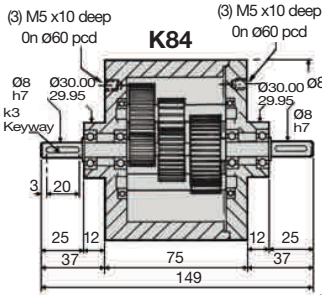
PART NUMBER		Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	Mod.	Standard Direction	PRICE EACH 1-5
HPCK83-2	**HPCXK83-2**	2:1	2000	1.70	0.8	Same	**£414.68**
HPCK83-3	**HPCXK83-3**	3:1	1333	1.82	0.8	Same	**£414.68**
HPCK83-4	**HPCXK83-4**	4:1	1000	1.97	0.8	Same	**£414.68**
HPCK83-5	**HPCXK83-5**	5:1	800	1.91	0.8	Same	**£414.68**
HPCK83-6	**HPCXK83-6**	6:1	666	1.90	0.8	Same	**£414.68**
HPCK83-9	**HPCXK83-9**	9:1	444	1.98	0.8	Same	**£414.68**
HPCK83-10	**HPCXK83-10**	10:1	400	2.05	0.8	Same	**£414.68**
HPCK83-SP or HPCXK83-SP		Special Ratios: Replace **SP** with required ratio					**£479.32**

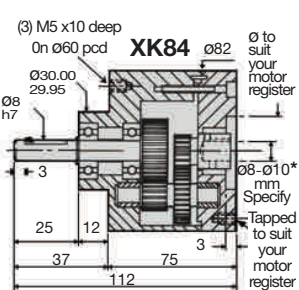
Other Info.

Efficiency @ 1000 R.P.M: 92%

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.

WEIGHT	0.3 Kg
BACKLASH	3°- 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	4000 rpm
MATERIAL :	
CASE MAT'L	Aluminium Body & Caps
GEAR MAT'L	High Carbon Steel 817M40 (EN24)
GREASED FOR LIFE	Shell Alvania





Input Bore, Tapped Holes & Register must be specified when ordering.

*Plain bore, no keyslot

N.m. Output Torque	RPM Input	Reduction ratio 12:1	15:1	18:1	20:1	27:1	30:1
	4000	1.59	1.66	1.71	1.78	1.83	1.88
	2000	1.83	1.89	1.94	2.01	2.12	2.16
	1000	2.12	2.15	2.18	2.23	2.30	2.40
	500	2.30	2.41	2.54	2.60	2.65	2.70
	200	2.71	2.84	2.95	3.00	3.07	3.14
	100	3.07	3.21	3.36	3.45	3.54	3.68
	50	3.54	3.60	3.66	3.81	4.01	4.14
	20	4.19	4.32	4.33	4.50	4.66	4.80

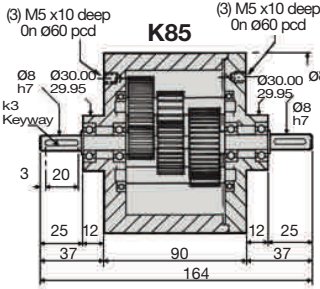
DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

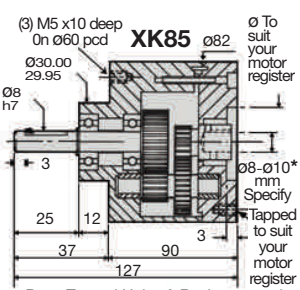
PART NUMBER		Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	% Effi. @ 1000 rpm	Standard Direction	PRICE EACH 1-5
HPCK84-12	HPCXK84-12	12:1	333	2.12	88	Same	£425.14
HPCK84-15	HPCXK84-15	15:1	266	2.15	85	Same	£425.14
HPCK84-18	HPCXK84-18	18:1	222	2.18	88	Same	£425.14
HPCK84-20	HPCXK84-20	20:1	200	2.23	85	Same	£425.14
HPCK84-27	HPCXK84-27	27:1	148	2.30	88	Same	£425.14
HPCK84-30	HPCXK84-30	30:1	114	2.33	85	Same	£425.14
HPCK84-SP or HPCXK84-SP		Special Ratios: Replace **SP** with required ratio					£497.00

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.

Double or Single Shafted

WEIGHT	1.00/2.00 Kg
BACKLASH	3°- 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	4000 rpm
	MATERIAL :
CASE MAT'L	Aluminium Body & Caps
GEAR MAT'L	High Carbon Steel 817M40 (EN24)
GREASED FOR LIFE	Shell Alvania





Input Bore, Tapped Holes & Register must be specified when ordering.

*Plain bore, no keyslot

N.m. Output Torque	RPM Input	Reduction ratio 36:1	45:1	54:1	81:1
	4000	1.90	1.92	1.95	2.10
	2000	2.18	2.20	2.22	2.30
	1000	2.43	2.46	2.49	2.60
	500	2.75	2.78	2.80	2.86
	200	3.18	3.22	3.26	3.30
	100	3.68	3.72	3.78	3.85
	50	4.18	4.26	4.29	4.36
	20	4.88	4.93	4.97	5.00

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

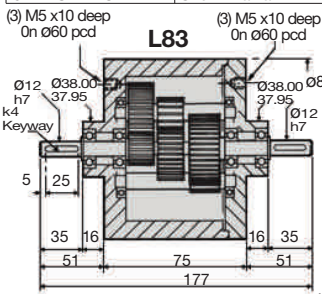
PART NUMBER		Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	Mod.	Standard Direction	PRICE EACH 1-5
HPCK85-36	**HPCXK85-36**	36:1	111	2.43	0.8	Same	**£492.97**
HPCK85-45	**HPCXK85-45**	45:1	88	2.46	0.8	Same	**£492.97**
HPCK85-54	**HPCXK85-54**	54:1	74	2.49	0.8	Same	**£492.97**
HPCK85-81	**HPCXK85-81**	81:1	49	2.60	0.8	Same	**£492.97**
HPCK85-SP or HPCXK85-SP		Special Ratios: Replace **SP** with required ratio					**£564.70**

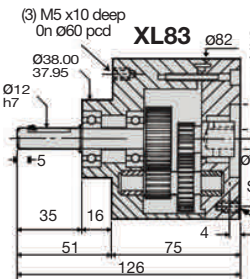
Other Info.

Efficiency @ 1000 R.P.M: 85%

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.

WEIGHT	1.00/2.00 Kg
BACKLASH	3°- 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	4000 rpm
MATERIAL :	
CASE MAT'L	Aluminium Body & Caps
GEAR MAT'L	High Carbon Steel 817M40 (EN24)
GREASED FOR LIFE	Shell Alvania





Input Bore, Tapped Holes & Register must be specified when ordering.

*Plain bore, no keyslot

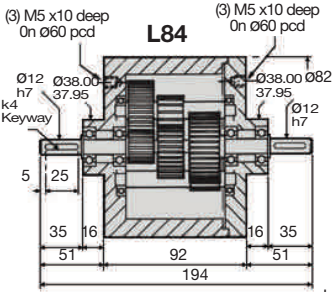
N.m. Output Torque	RPM Input	Reduction ratio 2:1	3:1	4:1	5:1	6:1	8:1	9:1
	4000	2.6	2.8	3.1	3.2	3.2	3.4	3.5
	2000	3.1	3.3	3.6	3.6	3.7	3.8	3.9
	1000	3.6	3.8	4.2	4.3	4.2	4.4	4.5
	500	4.2	4.4	4.7	4.8	4.7	4.9	5.1
	200	4.8	5.2	5.5	5.5	5.5	5.8	6.0
	100	5.5	5.8	6.2	6.4	6.3	6.5	6.8
	50	6.2	6.7	7.4	7.5	7.3	7.5	7.9
	20	7.4	7.8	8.4	8.8	8.8	9.1	9.4

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

PART NUMBER		Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	% Effi. @ 1000 rpm	Standard Direction	PRICE EACH 1-5
HPCL83-2	**HPCXL83-2**	2:1	2000	3.6	92	Same	**£570.75**
HPCL83-3	**HPCXL83-3**	3:1	1333	3.8	92	Same	**£570.75**
HPCL83-4	**HPCXL83-4**	4:1	1000	4.2	92	Same	**£570.75**
HPCL83-5	**HPCXL83-5**	5:1	800	4.3	92	Same	**£570.75**
HPCL83-6	**HPCXL83-6**	6:1	600	4.2	92	Same	**£570.75**
HPCL83-8	**HPCXL83-8**	8:1	500	4.4	92	Same	**£570.75**
HPCL83-9	**HPCXL83-9**	9:1	444	4.5	92	Same	**£570.75**
HPCL83-SP or HPCXL83-SP		Special Ratios: Replace **SP** with required ratio					**£640.63**

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.

WEIGHT	1.00/2.00 Kg
BACKLASH	3°- 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	4000 rpm
MATERIAL :	
CASE MAT'L	Aluminium Body & Caps
GEAR MAT'L	High Carbon Steel 817M40 (EN24)
GREASED FOR LIFE	Shell Alvania



Input Bore, Tapped Holes & Register must be specified when ordering.

*Plain bore, no keyslot

N.m. Output Torque	RPM Input	Reduction ratio 12:1	16:1	18:1	24:1	27:1
	4000	3.20	3.30	3.40	3.40	3.50
	2000	4.00	4.00	4.20	4.30	4.30
	1000	4.60	4.70	4.80	4.80	4.90
	500	5.00	5.10	5.10	5.20	5.30
	200	6.00	6.10	6.20	6.30	6.50
	100	7.00	7.00	7.10	7.10	7.30
	50	8.10	8.10	8.30	8.30	8.40
	20	9.20	9.30	9.30	9.50	9.60

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

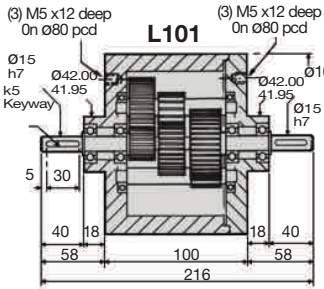
PART NUMBER		Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	Mod.	Standard Direction	PRICE EACH 1-5
HPCL84-12	HPCXL84-12	12:1	333	4.6	1.25	Opposite	£647.51
HPCL84-16	HPCXL84-16	16:1	250	4.7	1.25	Opposite	£647.51
HPCL84-18	HPCXL84-18	18:1	222	4.8	1.25	Opposite	£647.51
HPCL84-24	HPCXL84-24	24:1	166	4.8	1.25	Opposite	£647.51
HPCL84-27	HPCXL84-27	27:1	148	4.9	1.25	Opposite	£647.51
HPCL84-32	HPCXL84-32	32:1	125	4.9	1.25	Same	£647.51
HPCL84-54	HPCXL84-54	54:1	74	5.0	1.25	Same	£647.51
HPCL84-SP or HPCXL84-SP		Special Ratios: Replace **SP** with required ratio					£719.54

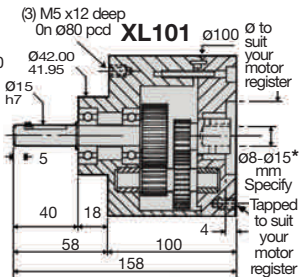
Other Info.

Efficiency @ 1000 R.P.M: 88%

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.

WEIGHT	1.00/2.00 Kg
BACKLASH	3°- 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	3000 rpm
MATERIAL :	
CASE MAT'L	Aluminium Body & Caps
GEAR MAT'L	High Carbon Steel 817M40 (EN24)
GREASED FOR LIFE	Shell Alvania





Input Bore, Tapped Holes & Register must be specified when ordering.

*Plain bore, no keyslot

N.m. Output Torque	RPM Input	Reduction ratio 2:1	3:1	4:1	5:1	6:1	8:1	9:1
	3000	6.9	7.1	7.5	7.8	8.0	8.3	8.8
	2000	7.5	7.9	8.3	8.5	8.7	8.9	9.2
	1000	8.6	9.0	9.4	9.6	10.0	10.3	10.6
	500	10.1	10.5	10.8	11.0	11.3	11.8	12.3
	200	11.5	12.2	12.7	12.0	13.5	13.6	13.8
	100	13.2	13.9	14.5	14.8	15.1	15.4	15.8
	50	15.0	15.9	16.9	17.2	17.8	17.9	18.0
	20	17.8	18.6	19.2	19.6	20.0	20.4	21.0

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

PART NUMBER		Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	Mod	Standard Direction	PRICE EACH 1-5
HPCL101-2	HPCXL101-2	2:1	1500	8.60	1.5	Same	£606.43
HPCL101-3	HPCXL101-3	3:1	1000	9.00	1.5	Same	£606.43
HPCL101-4	HPCXL101-4	4:1	750	9.40	1.5	Same	£606.43
HPCL101-5	HPCXL101-5	5:1	600	9.60	1.5	Same	£606.43
HPCL101-6	HPCXL101-6	6:1	500	10.00	1.5	Same	£606.43
HPCL101-8	HPCXL101-8	8:1	375	10.30	1.5	Same	£606.43
HPCL101-9	HPCXL101-9	9:1	333	10.60	1.5	Same	£606.43
HPCL101-SP or HPCXL101-SP		Special Ratios: Replace **SP** with required ratio					£695.02

Other Info.

Efficiency @ 1000 R.P.M: 92%

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.

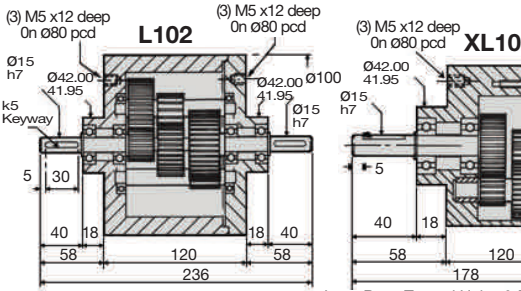
Inline Spur Gear Reducers

Output Torque 8.8 - 25.0Nm **Ratio** 10:1 - 27:1

Double or Single Shafted

L102 / XL101

WEIGHT	1.50/2.50 Kg
BACKLASH	3°- 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	3000 rpm
MATERIAL :	
CASE MAT'L	Aluminium Body & Caps
GEAR MAT'L	High Carbon Steel 817M40 (EN24)
GREASED FOR LIFE	Shell Alvania



Input Bore, Tapped Holes & Register must be specified when ordering.

*Plain bore, no keyslot

N.m. Output Torque	RPM Input	Reduction ratio 10:1	12:1	15:1	18:1	24:1	27:1
	3000	8.8	8.9	9.0	9.1	9.5	10.0
	2000	9.3	9.4	9.7	10.0	10.4	10.8
	1000	10.8	11.0	11.0	11.2	11.5	12.0
	500	12.4	12.5	12.5	12.7	13.5	14.0
	200	14.1	14.5	14.7	15.0	15.7	16.5
	100	16.1	16.6	16.7	17.0	17.5	18.2
	50	18.6	19.2	19.5	19.7	20.0	20.4
	10	21.7	22.4	22.6	23.0	23.8	25.0

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

PART NUMBER		Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	Mod	Standard Direction	PRICE EACH 1-5
HPCL102-10	HPCXL102-10	10:1	300	10.80	1.50	Opposite	£692.13
HPCL102-12	HPCXL102-12	12:1	250	11.00	1.50	Opposite	£692.13
HPCL102-15	HPCXL102-15	15:1	200	11.00	1.50	Opposite	£692.13
HPCL102-18	HPCXL102-18	18:1	166	11.20	1.50	Opposite	£692.13
HPCL102-24	HPCXL102-24	24:1	125	11.50	1.50	Opposite	£692.13
HPCL102-27	HPCXL102-27	27:1	111	12.00	1.50	Opposite	£692.13
HPCL102-SP or HPCXL102-SP		Special Ratios: Replace **SP** with required ratio					£779.62

Other Info.

Efficiency @ 1000 R.P.M: 88%

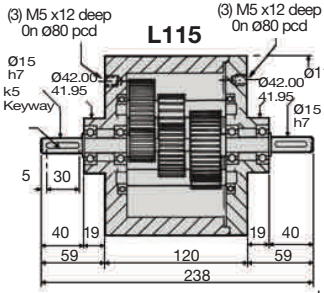
Testing in your application is necessary.
You will need to assess duty, cycles and confirm gearbox suitability with your own calculations.
Torque figures are to be used for guidance only.

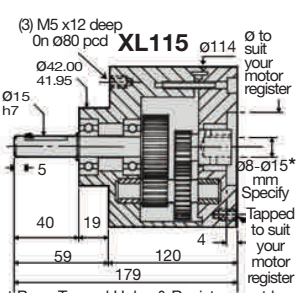
Inline Spur Gear Reducers

L115 / XL115

Double or Single Shafted

WEIGHT	3.00/4.00 Kg
BACKLASH	3°- 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	3000 rpm
MATERIAL :	
CASE MAT'L	Aluminium Body & Caps
GEAR MAT'L	High Carbon Steel 817M40 (EN24)
GREASED FOR LIFE	Shell Alvania





Input Bore, Tapped Holes & Register must be specified when ordering.

*Plain bore, no keyslot

N.m. Output Torque	RPM Input	Reduction ratio 2:1	3:1	4:1	5:1	6:1	9:1
	3000	10.3	11.0	11.8	12.9	12.5	13.4
	2000	11.3	12.1	13.0	13.9	13.9	14.9
	1000	13.3	14.2	15.1	16.4	15.9	17.0
	500	15.4	16.2	17.3	18.5	18.0	18.5
	200	18.0	19.0	20.2	21.6	21.0	22.7
	100	20.5	21.7	22.9	24.7	24.0	25.6
	50	23.6	24.9	26.6	28.3	27.1	28.5
	10	28.3	28.3	31.9	33.4	32.6	34.0

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

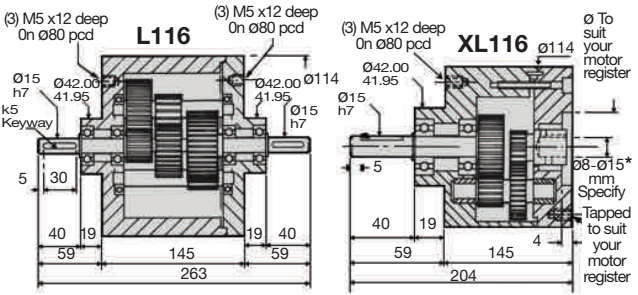
PART NUMBER		Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	Mod	Standard Direction	PRICE EACH 1-5
HPCL115-2	**HPCXL115-2**	2:1	1500	13.3	1.75	Same	**£642.10**
HPCL115-3	**HPCXL115-3**	3:1	1000	14.2	1.75	Same	**£642.10**
HPCL115-4	**HPCXL115-4**	4:1	750	15.1	1.75	Same	**£642.10**
HPCL115-5	**HPCXL115-5**	5:1	600	16.4	1.75	Same	**£642.10**
HPCL115-6	**HPCXL115-6**	6:1	500	15.9	1.75	Same	**£642.10**
HPCL115-9	**HPCXL115-9**	9:1	333	17.0	1.75	Same	**£642.10**
HPCL115-SP or HPCXL115-SP		Special Ratios: Replace **SP** with required ratio					**£738.43**

Other Info.

Efficiency @ 1000 R.P.M: 92%

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.

WEIGHT	3.00/4.00 Kg
BACKLASH	3°- 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	3000 rpm
	MATERIAL :
CASE MAT'L	Aluminium Body & Caps
GEAR MAT'L	High Carbon Steel 817M40 (EN24)
GREASED FOR LIFE	Shell Alvania



Input Bore, Tapped Holes & Register must be specified when ordering.

*Plain bore, no keyslot

N.m. Output Torque	RPM Input	Reduction ratio 10:1	12:1	15:1	18:1	27:1
	3000	13.3	13.6	14.0	14.5	15.8
	2000	14.0	14.6	15.1	15.8	17.2
	1000	16.5	17.0	17.3	17.8	19.2
	500	18.8	19.0	19.5	20.2	22.0
	200	22.0	22.3	23.0	24.0	26.0
	100	25.0	25.3	26.0	27.0	29.0
	50	28.8	29.1	30.2	31.2	32.2
	10	34.0	34.0	35.5	38.0	40.0

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

PART NUMBER		Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	Mod	Standard Direction	PRICE EACH 1-5
HPCL116-10	**HPCXL116-10**	10:1	300	16.50	1.75	Opposite	**£733.39**
HPCL116-12	**HPCXL116-12**	12:1	250	17.00	1.75	Opposite	**£733.39**
HPCL116-15	**HPCXL116-15**	15:1	200	17.30	1.75	Opposite	**£733.39**
HPCL116-18	**HPCXL116-18**	18:1	167	17.80	1.75	Opposite	**£733.39**
HPCL116-27	**HPCXL116-27**	27:1	111	19.20	1.75	Opposite	**£733.39**
HPCL116-SP or HPCXL116-SP		Special Ratios: Replace **SP** with required ratio					**£837.31**

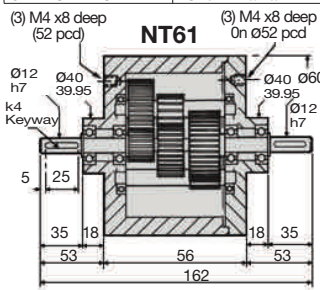
Other Info.

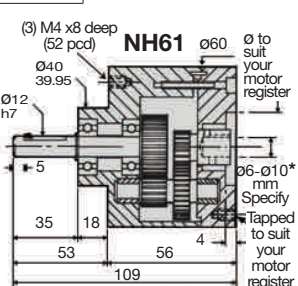
Efficiency @ 1000 R.P.M: 88%

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.

NT61 / NH61 — Double or Single Shafted

WEIGHT	0.60/1.20 Kg
BACKLASH	3°- 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	3000 rpm
MATERIAL :	
CASE MAT'L	Aluminium Body & Caps
GEAR MAT'L	655M13 Case Hardened
GREASED FOR LIFE	Shell Alvania





Input Bore, Tapped Holes & Register must be specified when ordering.

*8mm Plain bore, no keyslot

N.m. Output Torque	RPM Input	Reduction 1:1	2:1	3:1	4:1	5:1	6:1	8:1	9:1
	3000	5.2	5.2	5.4	5.6	5.9	6.2	6.5	6.8
	2000	5.7	5.7	6.0	6.2	6.4	6.7	7.1	7.5
	1000	6.7	6.7	6.9	7.2	7.5	7.8	8.2	8.6
	500	7.8	7.8	8.1	8.4	8.7	9.1	9.4	9.7
	200	9.1	9.1	9.4	9.8	10.1	10.4	10.8	11.4
	100	10.4	10.4	10.8	11.3	11.6	12.0	12.5	13.1
	50	12.0	12.0	12.0	12.2	12.3	12.5	13.2	14.3
	20	14.3	14.3	14.5	14.6	14.8	15.0	15.8	17.0

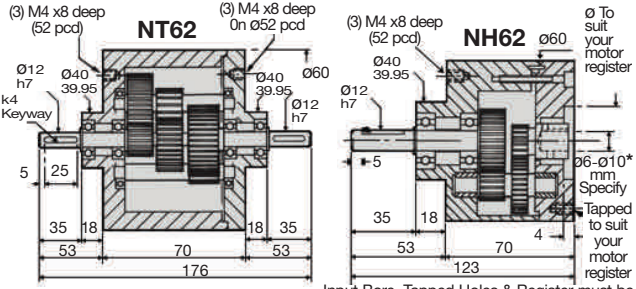
DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER		Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	% Effic. @ 1000 rpm	Stand. Direct.	PRICE EACH 1-5
HPCNT61-1	HPCNH61-1	1:1	3000	6.7	92	Opposite	£370.64
HPCNT61-2	HPCNH61-2	2:1	1500	6.7	92	Same	£316.31
HPCNT61-3	HPCNH61-3	3:1	1000	6.9	92	Same	£316.31
HPCNT61-4	HPCNH61-4	4:1	750	7.2	92	Same	£316.31
HPCNT61-5	HPCNH61-5	5:1	600	7.5	88	Opposite	£316.31
HPCNT61-6	HPCNH61-6	6:1	500	7.8	88	Opposite	£316.31
HPCNT61-8	HPCNH61-8	8:1	375	8.2	88	Opposite	£316.31
HPCNT61-9	HPCNH61-9	9:1	333	8.6	88	Opposite	£316.31
HPCNT61-SP or HPCNH61-SP		Special Ratios: Replace **SP** with required ratio					£335.35

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.

Double or Single Shafted NT62 / NH62

WEIGHT	0.60/1.20 Kg
BACKLASH	3°- 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	3000 rpm
MATERIAL :	
CASE MAT'L	Aluminium Body & Caps
GEAR MAT'L	655M13 Case Hardened
GREASED FOR LIFE	Shell Alvania



Input Bore, Tapped Holes & Register must be specified when ordering.

	RPM	Reduction							
	Input	1:1	10:1	12:1	15:1	18:1	20:1	24:1	27:1
N.m. Output Torque	3000	7.5	7.5	7.8	8.1	8.3	8.6	8.8	9.2
	2000	8.1	8.1	8.5	8.9	9.0	9.2	9.5	10.0
	1000	9.2	9.2	9.5	10.0	10.1	10.3	10.7	11.2
	500	10.3	10.3	10.7	11.2	11.4	11.7	12.2	12.8
	200	12.5	12.5	13.0	13.8	13.8	13.9	14.4	13.9
	100	13.9	13.9	14.6	15.4	15.6	15.8	16.5	17.3
	50	15.8	15.8	16.5	17.3	17.5	17.7	18.2	19.4
	20	18.8	18.8	19.8	21.0	21.4	22.0	22.7	23.5

*8mm Plain bore, no keyslot

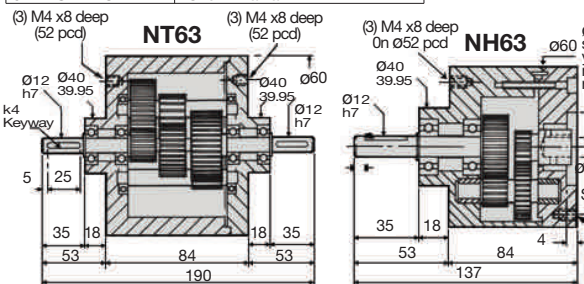
DISCOUNTS	
1 - 5	List Price
6 - 19	-5%
20 - 49	-10%
50 - 99	-15%
100 +	-20%

PART NUMBER		Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	Mod	Stand. Direc.	PRICE EACH 1-5
HPCNT62-1	**HPCNH62-1**	1:1	3000	9.20	0.8/0.1	Opposite	**£435.52**
HPCNT62-10	**HPCNH62-10**	10:1	300	9.20	0.8/0.1	Same	**£381.92**
HPCNT62-12	**HPCNH62-12**	12:1	250	9.50	0.8/0.1	Same	**£381.92**
HPCNT62-15	**HPCNH62-15**	15:1	200	10.00	0.8/0.1	Same	**£381.92**
HPCNT62-18	**HPCNH62-18**	18:1	166	10.10	0.8/0.1	Same	**£381.92**
HPCNT62-20	**HPCNH62-20**	20:1	150	10.30	0.8/0.1	Same	**£381.92**
HPCNT62-24	**HPCNH62-24**	24:1	125	10.70	0.8/0.1	Same	**£381.92**
HPCNT62-27	**HPCNH62-27**	27:1	111	11.20	0.8/0.1	Same	**£381.92**
HPCNT62-SP or HPCNH62-SP		Special Ratios: Replace **SP** with required ratio					**£394.01**

Testing in your application is necessary. **Efficiency @ 1000 R.P.M**: 85%
You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

NT63 / NH63 — Double or Single Shafted

WEIGHT	0.60/1.20 Kg
BACKLASH	3°- 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	3000 rpm
MATERIAL :	
CASE MAT'L	Aluminium Body & Caps
GEAR MAT'L	655M13 Case Hardened
GREASED FOR LIFE	Shell Alvania



Input Bore, Tapped Holes & Register must be specified when ordering.

*8mm Plain bore, no keyslot

N.m. Output Torque	RPM Input	Reduction 1:1	30:1	36:1	40:1	48:1	54:1	81:1	120:1
	3000	9.2	9.2	9.5	10.0	10.5	11.3	12.5	12.5
	2000	10.0	10.0	10.4	10.8	11.4	12.1	13.1	13.1
	1000	11.2	11.2	11.8	12.5	13.3	14.0	15.0	15.0
	500	12.8	12.8	13.3	13.9	14.8	15.9	17.2	17.2
	200	14.3	14.3	15.3	16.7	17.8	18.9	20.3	20.3
	100	17.2	17.2	18.0	18.9	20.3	21.7	23.4	23.4
	50	19.7	19.7	21.0	22.2	23.4	24.8	26.6	26.6
	20	23.7	23.7	23.7	24.5	25.5	27.0	30.0	30.0

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

PART NUMBER		Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	Mod	Stand. Direct.	PRICE EACH 1-5
HPCNT63-1	**HPCNH63-1**	1:1	3000	11.2	0.8	Opposite	**£470.34**
HPCNT63-30	**HPCNH63-30**	30:1	100	11.2	0.8	Opposite	**£421.61**
HPCNT63-36	**HPCNH63-36**	36:1	83	11.8	0.8	Opposite	**£421.61**
HPCNT63-40	**HPCNH63-40**	40:1	75	12.5	0.8	Opposite	**£421.61**
HPCNT63-48	**HPCNH63-48**	48:1	62	13.3	0.8	Opposite	**£421.61**
HPCNT63-54	**HPCNH63-54**	54:1	55	14	0.8	Opposite	**£421.61**
HPCNT63-81	**HPCNH63-81**	81:1	37	15	0.8	Opposite	**£421.61**
HPCNT63-120	**HPCNH63-120**	120:1	25	15	0.8	Opposite	**£421.61**
HPCNT63-SP or HPCNH63-SP		Special Ratios: Replace **SP** with required ratio					**£470.34**

Testing in your application is necessary. **Efficiency @ 1000 R.P.M:** 80%
You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

Inline Spur Gear Reducers

Output Torque 12.8 - 44.0Nm

Ratio 1:1 - 9:1

Double or Single Shafted

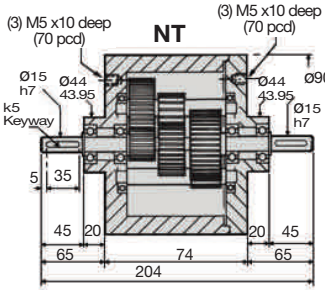
NT91 / NH91

HEAVY DUTY WITH HARDENED OUTPUT GEARS & SHAFTS

NT91 / NH91

WEIGHT	1.60/3.00 Kg
BACKLASH	3°- 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	3000 rpm
MATERIAL :	
CASE MAT'L	Aluminium Body & Caps
GEAR MAT'L	655M13 Case Hardened
GREASED FOR LIFE	Shell Alvania

INLINE SPUR GEAR REDUCERS



Input Bore, Tapped Holes & Register must be specified when ordering.

*8mm Plain bore, no keyslot

Gearboxes

N.m. Output Torque	RPM Input	Reduction 1:1	2:1	3:1	4:1	5:1	6:1	8:1	9:1
	3000	12.8	12.8	13.0	13.7	14.5	15.4	16.1	17.1
	2000	14.9	14.9	15.4	16.1	16.8	17.7	18.5	19.5
	1000	17.5	17.5	17.7	18.4	19.2	20.1	21.0	21.9
	500	20.1	20.1	20.7	21.5	22.5	23.6	24.7	26.0
	200	23.2	23.2	23.6	24.7	25.9	27.2	28.2	29.5
	100	26.5	26.5	27.2	27.5	27.9	28.4	30.5	33.0
	50	31.8	31.8	32.5	33.8	35.2	36.6	38.0	39.6
	20	35.6	35.6	36.5	38.0	39.8	41.0	42.2	44.0

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

PART NUMBER		Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	Mod	Standard Direction	PRICE EACH 1-5
HPCNT91-1	**HPCNH91-1**	1:1	3000	14.9	1.25	Opposite	**£490.95**
HPCNT91-2	**HPCNH91-2**	2:1	1500	14.9	1.25	Same	**£365.72**
HPCNT91-3	**HPCNH91-3**	3:1	1000	15.4	1.25	Same	**£365.72**
HPCNT91-4	**HPCNH91-4**	4:1	750	16.1	1.25	Same	**£365.72**
HPCNT91-5	**HPCNH91-5**	5:1	600	16.8	1.25	Opposite	**£365.72**
HPCNT91-6	**HPCNH91-6**	6:1	500	17.7	1.25	Opposite	**£365.72**
HPCNT91-8	**HPCNH91-8**	8:1	375	18.5	1.25	Opposite	**£365.72**
HPCNT91-9	**HPCNH91-9**	9:1	333	19.5	1.25	Opposite	**£365.72**
HPCNT91-SP or HPCNH91-SP		Special Ratios: Replace **SP** with required ratio					**£381.26**

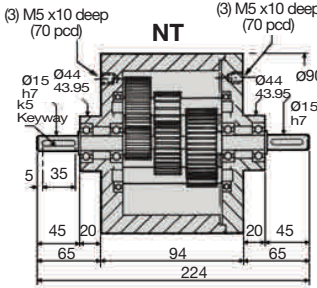
Testing in your application is necessary. **Efficiency @ 1000 R.P.M**: 90%

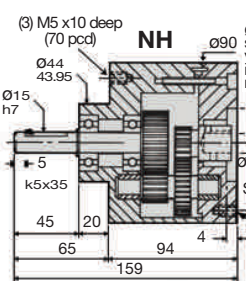
You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

NT92 / NH92 Double or Single Shafted

HEAVY DUTY WITH HARDENED OUTPUT GEARS & SHAFTS

WEIGHT	1.60/3.00 Kg
BACKLASH	3°- 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	3000 rpm
MATERIAL :	
CASE MAT'L	Aluminium Body & Caps
GEAR MAT'L	655M13 Case Hardened
GREASED FOR LIFE	Shell Alvania





Input Bore, Tapped Holes & Register must be specified when ordering.

*8mm Plain bore, no keyslot

N.m. Output Torque	RPM Input	Reduction 1:1	10:1	12:1	15:1	18:1	20:1	24:1	27:1
	3000	18.5	18.5	19.1	20.0	20.7	21.5	22.0	22.5
	2000	21.2	21.2	22.0	22.7	23.6	24.7	25.3	25.8
	1000	24.7	24.7	25.3	26.0	26.7	27.5	28.2	29.0
	500	29.0	29.0	29.7	30.3	31.1	32.0	33.0	34.0
	200	31.5	31.5	32.5	33.5	34.6	36.0	37.5	33.5
	100	36.0	36.0	37.2	38.5	40.0	42.0	42.7	43.5
	50	43.0	43.0	44.6	46.3	47.9	50.0	52.0	53.5
	20	52.0	52.0	52.6	53.4	54.2	55.0	57.0	60.0

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

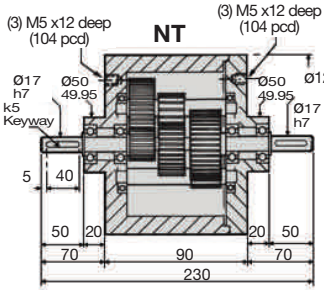
PART NUMBER		Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	Mod	Stand. Direct.	PRICE EACH 1-5
HPCNT92-1	HPCNH92-1	1:1	3000	21.2	1.25	Same	£445.03
HPCNT92-10	HPCNH92-10	10:1	300	21.2	1.25	Same	£391.24
HPCNT92-12	HPCNH92-12	12:1	250	22.0	1.25	Same	£391.24
HPCNT92-15	HPCNH92-15	15:1	200	22.7	1.25	Same	£391.24
HPCNT92-18	HPCNH92-18	18:1	166	23.6	1.25	Same	£391.24
HPCNT92-20	HPCNH92-20	20:1	150	24.7	1.25	Same	£391.24
HPCNT92-24	HPCNH92-24	24:1	125	25.8	1.25	Same	£391.24
HPCNT92-27	HPCNH92-27	27:1	111	25.8	1.25	Same	£391.24
HPCNT92-SP or HPCNH92-SP		Special Ratios: Replace **SP** with required ratio					£445.03

Testing in your application is necessary. **Efficiency @ 1000 R.P.M:** 84%
You will need to assess duty, cycles and confirm gearbox suitability with your own calculations. Torque figures are to be used for guidance only.

Double or Single Shafted NT121 /NH121

HEAVY DUTY WITH HARDENED OUTPUT GEARS & SHAFTS

WEIGHT	1.60/3.00 Kg
BACKLASH	3°- 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	3000 rpm
MATERIAL :	
CASE MAT'L	Aluminium Body & Caps
GEAR MAT'L	655M13 Case Hardened
GREASED FOR LIFE	Shell Alvania



Input Bore, Tapped Holes & Register must be specified when ordering.

*10mm Plain bore, no keyslot

N.m. Output Torque	RPM Input	Reduction 1:1	2:1	3:1	4:1	5:1	6:1	8:1	9:1
	3000	20.0	20.0	20.0	21.1	22.2	23.5	29.7	26.0
	2000	23.0	23.0	23.6	24.7	26.0	27.4	28.6	30.0
	1000	27.1	27.1	27.5	28.6	29.7	31.0	32.5	34.0
	500	31.5	31.5	32.0	33.3	34.8	36.4	38.0	40.0
	200	35.0	35.0	35.5	37.2	39.0	40.8	42.8	45.0
	100	40.0	40.0	41.0	41.8	42.7	43.6	47.0	51.0
	50	47.2	47.2	48.0	50.2	52.5	55.0	58.0	61.0
	20	53.0	53.0	55.0	57.0	60.0	62.0	65.0	68.0

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

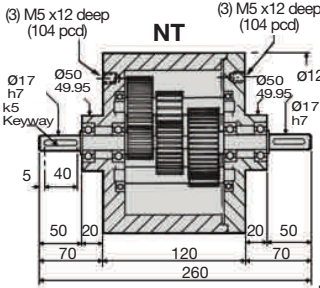
PART NUMBER		Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	Mod	Standard Direction	PRICE EACH 1-5
HPCNT121-1	**HPCNH121-1**	1:1	3000	23.0	1.75	Opposite	**£506.84**
HPCNT121-2	**HPCNH121-2**	2:1	1500	23.0	1.75	Same	**£455.09**
HPCNT121-3	**HPCNH121-3**	3:1	1000	23.6	1.75	Same	**£455.09**
HPCNT121-4	**HPCNH121-4**	4:1	750	24.7	1.75	Same	**£455.09**
HPCNT121-5	**HPCNH121-5**	5:1	600	26.0	1.75	Same	**£455.09**
HPCNT121-6	**HPCNH121-6**	6:1	500	27.4	1.75	Same	**£455.09**
HPCNT121-8	**HPCNH121-8**	8:1	375	28.6	1.75	Same	**£455.09**
HPCNT121-9	**HPCNH121-9**	9:1	333	30.0	1.75	Same	**£455.09**
HPCNT121-SP or HPCNH121-SP		Special Ratios: Replace **SP** with required ratio					**£506.84**

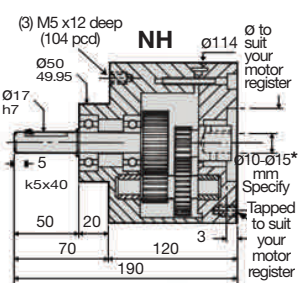
Testing in your application is necessary. **Efficiency @ 1000 R.P.M**: 92%
You will need to assess duty, cycles and confirm gearbox suitability with your own calculations.
Torque figures are to be used for guidance only.

NT122 / NH122 Double or Single Shafted

HEAVY DUTY WITH HARDENED OUTPUT GEARS & SHAFTS

WEIGHT	4.00/5.00 Kg
BACKLASH	3°- 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	3000 rpm
MATERIAL :	
CASE MAT'L	Aluminium Body & Caps
GEAR MAT'L	655M13 Case Hardened
GREASED FOR LIFE	Shell Alvania





Input Bore, Tapped Holes & Register must be specified when ordering.

*10mm Plain bore, no keyslot

N.m. Output Torque	RPM Input	Reduction 1:1	10:1	12:1	15:1	18:1	20:1	24:1	27:1
	3000	32	32	33	34	35	36	37	38
	2000	36	36	37	38	39	41	42	43
	1000	42	42	43	44	45	46	47	48
	500	49	49	51	52	53	54	55	56
	200	54	54	56	58	60	61	63	65
	100	61	61	64	67	70	72	73	73
	50	73	73	76	78	82	85	86	86
	20	85	85	86	88	89	90	90	90

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

PART NUMBER		Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	Mod	Stand. Direct.	PRICE EACH 1-5
HPCNT122-1	HPCNH122-1	1:1	3000	36	1.75/1.25	Opposite	£576.92
HPCNT122-10	HPCNH122-10	10:1	300	36	1.75/1.25	Opposite	£544.81
HPCNT122-12	HPCNH122-12	12:1	250	37	1.75/1.25	Opposite	£544.81
HPCNT122-15	HPCNH122-15	15:1	200	38	1.75/1.25	Opposite	£544.81
HPCNT122-18	HPCNH122-18	18:1	166	39	1.75/1.25	Opposite	£544.81
HPCNT122-24	HPCNH122-24	24:1	150	42	1.75/1.25	Opposite	£544.81
HPCNT122-27	HPCNH122-27	27:1	125	43	1.75/1.25	Opposite	£544.81
HPCNT122-SP or HPCNH122-SP		Special Ratios: Replace **SP** with required ratio					£578.44

Testing in your application is necessary. **Efficiency @ 1000 R.P.M:** 88%
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: Depends on ratio. Please consult our HPC Gears Technical Department.
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, Shafts and Bores: All shafts are ground to h7 tolerance. Bores are to H8 tolerance. Keys are DIN 6885 (sliding fit).
Lubrications: Gearboxes are greased for life with Shell Avania high performance grease.
Ratios: 1:1 - 6000:1. Specials are available. Please consult our HPC Gears Technical Department.

Materials

Case: J / XJ : Aluminium Red anodised (6082 T6), end caps with black Derlin, centre body. K / XK / L / XL / NT / NH: Aluminium (6082 T6) body and end caps.

Gears: High carbon steel 817M40 or case hardened alloy steel (655M13).

Bearings: High quality single row ball bearings or Oilite® sintered bronze bearings.

Lubrication, Mounting and Operating Conditions

- Operating temperature range 0° C to 70° C. Standard grease.
- Wider range of operating temperatures are achievable by and 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.