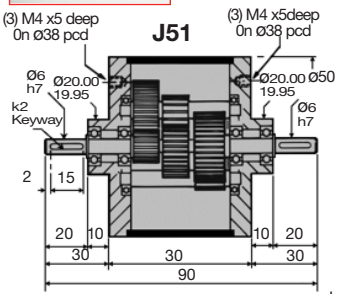
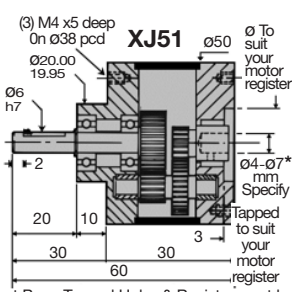
Plastic Body Mid-Section

WEIGHT	0.14 Kg
BACKLASH	3°- 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	4000 rpm
MATERIAL :	
CASE MAT'L	Derlin Body / Aluminium 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	10:1	15:1	20:1
	4000	0.16	0.15	0.14	0.13	0.15	0.17	0.18
	2000	0.19	0.18	0.17	0.15	0.18	0.20	0.21
	1000	0.22	0.22	0.20	0.18	0.21	0.22	0.23
	500	0.27	0.25	0.23	0.21	0.24	0.25	0.27
	200	0.32	0.30	0.27	0.25	0.28	0.30	0.32
	100	0.36	0.33	0.30	0.28	0.32	0.34	0.36
	50	0.40	0.38	0.35	0.32	0.36	0.37	0.42
	10	0.48	0.45	0.41	0.38	0.43	0.44	0.49

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

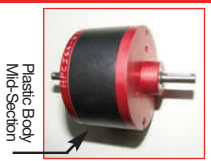
PART NUMBER		Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	Mod.	Standard Direction	PRICE EACH 1-5
HPCJ51-2	**HPCXJ51-2**	2:1	2000	0.22	0.4	Same	**£149.69**
HPCJ51-3	**HPCXJ51-3**	3:1	1333	0.22	0.4	Same	**£149.69**
HPCJ51-4	**HPCXJ51-4**	4:1	1000	0.20	0.4	Same	**£149.69**
HPCJ51-5	**HPCXJ51-5**	5:1	800	0.18	0.4	Same	**£149.69**
HPCJ51-10	**HPCXJ51-10**	10:1	400	0.21	0.4	Same	**£149.69**
HPCJ51-15	**HPCXJ51-15**	15:1	266	0.22	0.4	Same	**£149.69**
HPCJ51-20	**HPCXJ51-20**	20:1	200	0.23	0.4	Same	**£149.69**
HPCJ51-SP or HPCXJ51-SP		Special Ratios: Replace **SP** with required ratio					**£210.38**

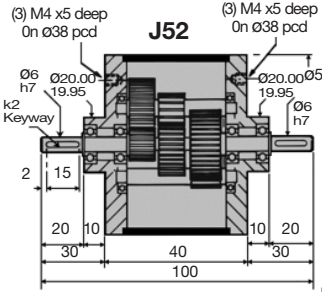
Other Info.

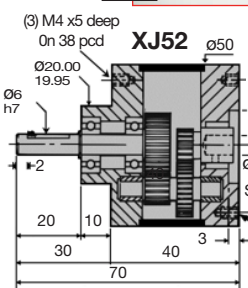
Efficiency @ 1000 R.P.M: 92%

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	0.14 Kg
BACKLASH	3°- 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	4000 rpm
MATERIAL :	
CASE MAT'L	Derlin Body / Aluminium 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 30:1	40:1	50:1	60:1	75:1	100:1	125:1
	4000	0.27	0.28	0.29	0.30	0.31	0.33	0.34
	2000	0.30	0.32	0.33	0.34	0.35	0.38	0.40
	1000	0.34	0.36	0.38	0.40	0.41	0.42	0.43
	500	0.40	0.41	0.42	0.43	0.46	0.49	0.49
	200	0.46	0.48	0.49	0.52	0.54	0.57	0.59
	100	0.52	0.55	0.57	0.59	0.61	0.65	0.69
	50	0.57	0.62	0.65	0.69	0.73	0.74	0.75
	10	0.69	0.73	0.75	0.75	0.75	0.90	0.90

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
HPCJ52-30	**HPCXJ52-30**	30:1	133	0.34	0.4	Opposite	**£206.73**
HPCJ52-40	**HPCXJ52-40**	40:1	100	0.36	0.4	Opposite	**£206.73**
HPCJ52-50	**HPCXJ52-50**	50:1	80	0.38	0.4	Opposite	**£206.73**
HPCJ52-60	**HPCXJ52-60**	60:1	66	0.40	0.4	Opposite	**£206.73**
HPCJ52-75	**HPCXJ52-75**	75:1	53	0.41	0.4	Opposite	**£206.73**
HPCJ52-100	**HPCXJ52-100**	100:1	40	0.42	0.4	Opposite	**£206.73**
HPCJ52-125	**HPCXJ52-125**	125:1	32	0.43	0.4	Opposite	**£206.73**
HPCJ52-SP or HPCXJ52-SP		Special Ratios: Replace **SP** with required ratio					**£243.64**

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.

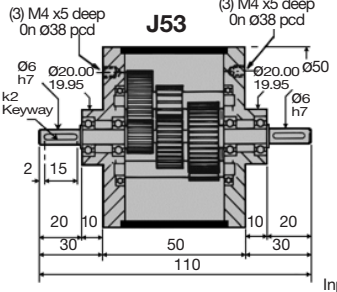
Efficiency @ 1000 R.P.M: 88%

Double or Single Shafted

J53 / XJ53

Plastic Body Mid-Section

WEIGHT	0.14 Kg
BACKLASH	3°- 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	4000 rpm
MATERIAL :	
CASE MAT'L	Derlin Body / Aluminium 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 140:1	160:1	200:1	300:1	400:1	500:1	625:1
	4000	0.43	0.45	0.46	0.51	0.53	0.55	0.58
	2000	0.50	0.52	0.53	0.58	0.59	0.61	0.63
	1000	0.56	0.57	0.58	0.63	0.65	0.67	0.69
	500	0.63	0.67	0.69	0.69	0.79	0.84	0.96
	200	0.76	0.79	0.79	0.79	0.91	0.99	1.15
	100	0.86	0.91	0.91	0.91	1.15	1.15	1.15
	50	0.95	0.95	0.95	0.95	1.15	1.15	1.15
	10	1.15	1.15	1.15	1.15	1.15	1.15	1.15

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
HPCJ53-140	**HPCXJ53-140**	140:1	29	0.56	0.4	Same	**£276.35**
HPCJ53-160	**HPCXJ53-160**	160:1	25	0.57	0.4	Same	**£276.35**
HPCJ53-200	**HPCXJ53-200**	200:1	20	0.58	0.4	Same	**£276.35**
HPCJ53-300	**HPCXJ53-300**	300:1	13	0.63	0.4	Same	**£276.35**
HPCJ53-400	**HPCXJ53-400**	400:1	10	0.65	0.4	Same	**£276.35**
HPCJ53-500	**HPCXJ53-500**	500:1	8	0.67	0.4	Same	**£276.35**
HPCJ53-625	**HPCXJ53-625**	625:1	6.4	0.69	0.4	Same	**£276.35**
HPCJ53-SP or HPCXJ53-SP		Special Ratios: Replace **SP** with required ratio					**£315.91**

Other Info.

Efficiency @ 1000 R.P.M: 85%

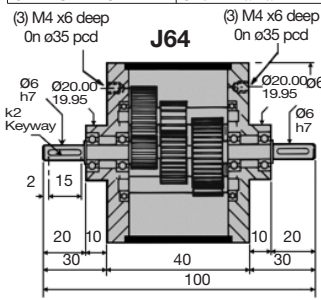
Testing in your application is necessary.
You will need to assess duty, cycles and confirm gearbox suitability with your own calculations.
Torque figures are to be used for guidance only.

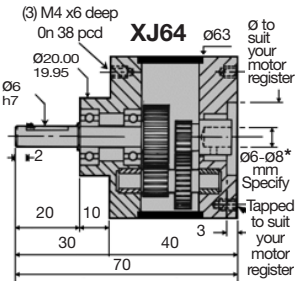
Inline Spur Gear Reducers

J64 / XJ64

Double or Single Shafted

WEIGHT	0.3 Kg
BACKLASH	3°- 6° Depending on Ratio
HOURS LIFE	12000
MAX INPUT SPEED	4000 rpm
MATERIAL :	
CASE MAT'L	Derlin Body / Aluminium 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	6:1	10:1	12:1	16:1
	4000	0.66	0.64	0.57	0.75	0.70	0.79	0.80
	2000	0.84	0.81	0.72	0.88	0.81	0.90	0.92
	1000	0.99	0.96	0.85	1.00	0.90	1.04	1.07
	500	1.13	1.10	0.98	1.14	1.01	1.17	1.21
	200	1.32	1.28	1.14	1.35	1.20	1.39	1.43
	100	1.50	1.45	1.30	1.53	1.33	1.58	1.65
	50	1.68	1.63	1.46	1.68	1.53	1.81	1.90
	10	2.00	1.95	1.74	2.00	1.80	2.10	2.25

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

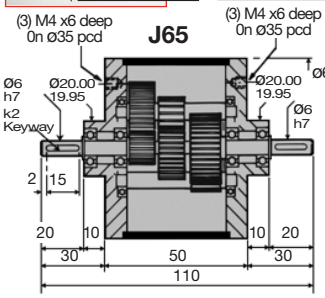
PART NUMBER		Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	Mod.	Standard Direction	PRICE EACH 1-5
HPCJ64-2	**HPCXJ64-2**	2:1	2000	0.99	0.5	Same	**£196.00**
HPCJ64-3	**HPCXJ64-3**	3:1	1333	0.96	0.5	Same	**£196.00**
HPCJ64-4	**HPCXJ64-4**	4:1	1000	0.85	0.5	Same	**£196.00**
HPCJ64-6	**HPCXJ64-6**	6:1	666	1.00	0.5	Same	**£196.00**
HPCJ64-10	**HPCXJ64-10**	10:1	400	0.90	0.5	Same	**£196.00**
HPCJ64-12	**HPCXJ64-12**	12:1	333	1.04	0.5	Same	**£196.00**
HPCJ64-16	**HPCXJ64-16**	16:1	250	1.07	0.5	Same	**£196.00**
HPCJ64-SP or HPCXJ64-SP		Special Ratios: Replace **SP** with required ratio					**£216.95**

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	Derlin Body / Aluminium 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

RPM Input	Reduction ratio 15:1	20:1	24:1	32:1	40:1	48:1	64:1
N.m. Output Torque							
4000	0.80	0.81	0.91	0.92	0.89	0.91	0.92
2000	0.91	0.93	1.04	1.05	1.03	1.04	1.06
1000	1.05	1.10	1.16	1.20	1.16	1.19	1.23
500	1.20	1.27	1.35	1.41	1.37	1.40	1.45
200	1.40	1.63	1.58	1.63	1.56	1.61	1.63
100	1.48	1.71	1.80	1.85	1.73	1.82	1.87
50	1.86	2.02	1.95	2.00	1.94	1.95	1.96
10	2.20	2.30	2.36	2.45	2.36	2.40	2.95

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

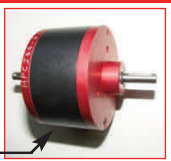
PART NUMBER		Ratio	Max O/P Speed rpm	N.M. Rating @ 1000 rpm	Mod.	Standard Direction	PRICE EACH 1-5
HPCJ65-15	**HPCXJ65-15**	15:1	266	1.05	0.5	Opposite	**£232.93**
HPCJ65-20	**HPCXJ65-20**	20:1	200	1.10	0.5	Opposite	**£232.93**
HPCJ65-24	**HPCXJ65-24**	24:1	166	1.16	0.5	Opposite	**£232.93**
HPCJ65-32	**HPCXJ65-32**	32:1	125	1.20	0.5	Opposite	**£232.93**
HPCJ65-40	**HPCXJ65-40**	40:1	100	1.16	0.5	Opposite	**£232.93**
HPCJ65-48	**HPCXJ65-48**	48:1	83	1.19	0.5	Opposite	**£232.93**
HPCJ65-64	**HPCXJ65-64**	64:1	62	1.23	0.5	Opposite	**£232.93**
HPCJ65-SP or HPCXJ65-SP		Special Ratios: Replace **SP** with required ratio					**£274.06**

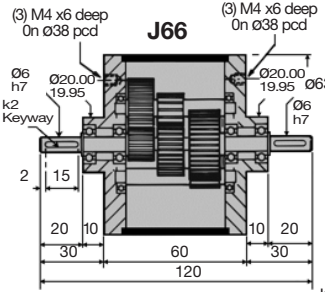
Other Info.

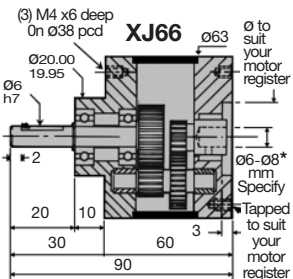
Efficiency @ 1000 R.P.M: 88%

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


Plastic Body Mid-Section





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

*Plain bore, no keyslot

N.m. Output Torque	RPM Input	Reduction ratio 50:1	80:1	96:1	128:1	160:1	192:1	256:1
	4000	0.90	1.01	1.05	1.09	1.13	1.25	1.40
	2000	1.04	1.13	1.18	1.24	1.30	1.40	1.55
	1000	1.18	1.30	1.33	1.39	1.44	1.60	1.85
	500	1.40	1.44	1.50	1.58	1.64	1.78	2.00
	200	1.60	1.73	1.80	1.87	1.96	2.18	2.42
	100	1.82	1.96	2.10	2.17	2.28	2.47	2.80
	50	2.02	2.28	2.45	2.61	2.80	2.80	2.80
	10	2.50	2.80	2.80	2.80	2.80	2.80	2.80

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	Mod.	Standard Direction	PRICE EACH 1-5
HPCJ66-50	HPCXJ66-50	50:1	80	1.18	0.5	Same	£276.16
HPCJ66-80	HPCXJ66-80	80:1	50	1.30	0.5	Same	£276.16
HPCJ66-96	HPCXJ66-96	96:1	41	1.33	0.5	Same	£276.16
HPCJ66-128	HPCXJ66-128	128:1	31	1.39	0.5	Same	£276.16
HPCJ66-160	HPCXJ66-160	160:1	25	1.44	0.5	Same	£276.16
HPCJ66-192	HPCXJ66-192	192:1	21	1.60	0.5	Same	£276.16
HPCJ66-256	HPCXJ66-256	256:1	15	1.85	0.5	Same	£276.16
HPCJ66-SP or HPCXJ66-SP		Special Ratios: Replace **SP** with required ratio					£317.94

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.

Efficiency @ 1000 R.P.M: 85%

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.