

POWERGEAR DATA SHEET P-075



L Series



FL Series



H Series



FH Series

Specifications:

Ratio:	1:1	1.5:1	2:1	3:1	4:1	5:1
Nominal output torque:	45Nm	45Nm	42Nm	33Nm	28Nm	25Nm
Acceleration torque:	68Nm	68Nm	63Nm	50Nm	42Nm	38Nm
Emergency torque:	90Nm	90Nm	84Nm	66Nm	56Nm	50Nm
Input speed:	2000rpm	2500rpm	2500rpm	3000rpm	3000rpm	3000rpm
Max input speed (Special measures on request)	6500rpm	6500rpm	6500rpm	6500rpm	6500rpm	6500rpm
Standard output backlash:	<=15 arcmin	<=15 arcmin	<=15 arcmin	<=15 arcmin	<=15 arcmin	<=15 arcmin
Reduced output backlash:	<=9 arcmin	<=9 arcmin	<=9 arcmin	<=9 arcmin	<=9 arcmin	<=9 arcmin
Permissible radial load*: (Output)	1100N	1100N	1100N	1100N	1100N	1100N
Permissible radial load*: (Input)	900N	900N	900N	900N	900N	900N
Permissible axial load*: (Output)	550N	550N	550N	550N	550N	550N
Permissible axial load*: (Input)	450N	450N	450N	450N	450N	450N
Efficiency at max load:	>98%	>98%	>98%	>98%	>98%	>98%
Running noise at 1500rpm, partial load	70db(A)	70db(A)	70db(A)	70db(A)	70db(A)	70db(A)
Weight:	4.5kg	4.5kg	4.5kg	4.5kg	4.5kg	4.5kg
Service life:	>15,000h	>15,000h	>15,000h	>15,000h	>15,000h	>15,000h
Oil quantity:	0.1 litres	0.1 litres	0.1 litres	0.1 litres	0.1 litres	0.1 litres
Operating temperature:	upto 80°C	upto 80°C	upto 80°C	upto 80°C	upto 80°C	upto 80°C
Mass moments of inertia related to input for shaft arrangement 13:	1.79kg/cm ²	1.22kg/cm ²	0.95kg/cm ²	0.78kg/cm ²	0.72kg/cm ²	0.69kg/cm ²

*At centre of shaft

Order code:

P-	075-	2-	3-	4-	5-	6-	7
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2:	Version:	L = solid shaft version; FL = solid shaft version with input flange H = hollow shaft version; FH = hollow shaft version with input flange
3:	Ratio:	1:1; 1.5:1; 2:1; 3:1; 4:1; 5:1
4:	Shaft arrangement:	Wa1; Wa3; Wa12; Wa13; Wa23; Wa123
5:	Mounting position:	MP1; MP2; MP3; MP4; MP5; MP6
6:	Input speed:	????rpm
7:	Special requirements:	As specified

Dimensions

a:	75mm	<p>L Series</p> <p>H Series</p> <p>FL Series</p> <p>FH Series</p>
b dia:	73mmh7	
c dia:	72mm	
d1 dia:	16mmk6	
l1:	30mm	
d2 dia:	16mmk6	
d3 dia:	14mmH7	
l2:	30mm	
l3:	47mm	
l4:	32mm	
e:	37.5mm	
f1:	120mm	
f2:	84mm	
g1:	15mm	
g2:	14.5mm	
h:	52.5mm	
k:	M6x12mm	
m1:	90mm	
m2:	54mm	
n1:	2mm	
n2:	2mm	
p:	30mm	
r1:	M5	
r2:	M5	
s:	4x M5x9	
t:	8mm	
u dia:	72.9mmg6	
v dia:	62mm	
Key d1:	5x5x25mm	
Key d2:	5x5x25mm	
Z:	4.5mm	
Input shaft d1 dia x L1 with keyway to DIN6885/1	14mmG7 x 33mm / 5x5mm	

Flange options:

Input flange B5 = u dia/ v dia/ w dia with 4x threaded holes:	120mm/ 100mm/ 80mmF7/ M6	140mm/ 115mm/ 95mmF7/ M8	160mm/ 130mm/ 110mmF7/ M8	200mm/ 165mm/ 130mmF7/ M10
Input flange B14 = u dia/ v dia/ w dia with 4x bored holes:	120mm/ 100mm/ 80mmF7/ 6.6mm	140mm/ 115mm/ 95mmF7/ 9mm	160mm/ 130mm/ 110mmF7/ 9mm	200mm/ 165mm/ 130mmF7/ 11mm

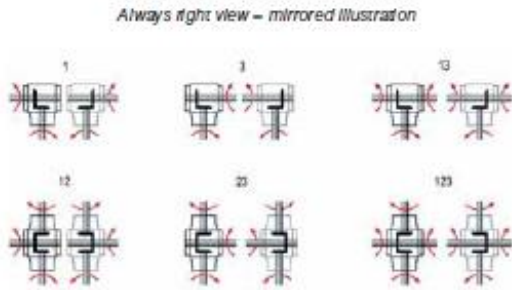
Thermal performance limit (P) = 2.9kW at 20°C and 100% duty cycle

Duty cycle:	100%	80%	60%	40%	20%
Factor:	1.0	1.2	1.4	1.6	1.8
Ambient temp:	10°C	20°C	30°C	40°C	50°C
Factor:	1.2	1.0	0.87	0.75	0.62

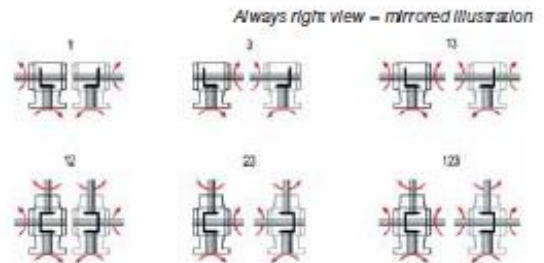
Eg: Duty cycle = 80%; ambient temp = 30°C

Therefore P = 2.9 x 1.2 x 0.87 = 3.03kW

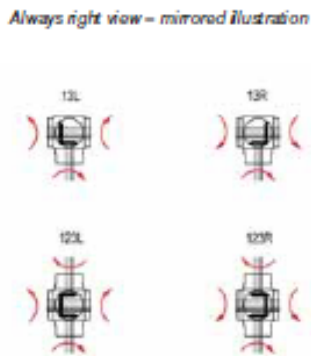
Shaft arrangements L:



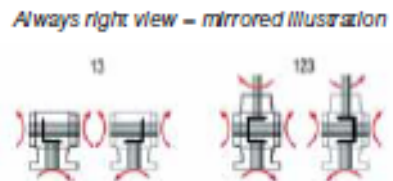
Shaft arrangements FL:



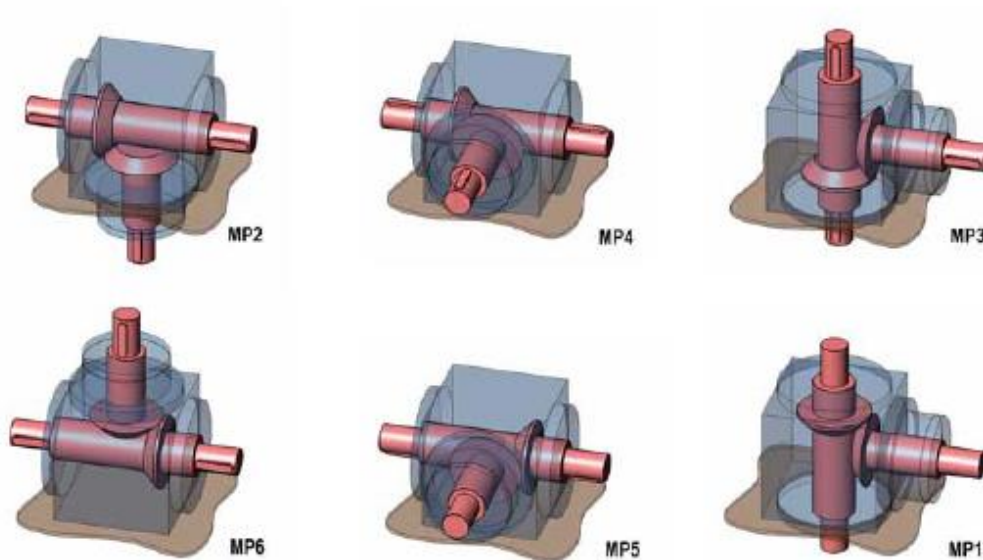
Shaft arrangements H:



Shaft arrangements FH:



Mounting positions:



For full specifications, see PowerGear catalogue.