

POWERGEAR DATA SHEET P-210



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:	1300Nm	1300Nm	1220Nm	1020Nm	860Nm	740Nm
Acceleration torque:	1950Nm	1950Nm	1830Nm	1530Nm	1290Nm	1110Nm
Emergency torque:	2600Nm	2600Nm	2440Nm	2040Nm	1720Nm	1480Nm
Input speed:	800rpm	1050rpm	1050rpm	1600rpm	1600rpm	1600rpm
Max input speed (Special measures on request)	2200rpm	2200rpm	2200rpm	2200rpm	2200rpm	2200rpm
Standard output backlash:	≤ 11 arcmin	≤ 11 arcmin	≤ 11 arcmin	≤ 11 arcmin	≤ 11 arcmin	≤ 11 arcmin
Reduced output backlash:	≤ 6 arcmin	≤ 6 arcmin	≤ 6 arcmin	≤ 6 arcmin	≤ 6 arcmin	≤ 6 arcmin
Permissible radial load*: (Output)	10500N	10500N	10500N	10500N	10500N	10500N
Permissible radial load*: (Input)	8500N	8500N	8500N	8500N	8500N	8500N
Permissible axial load*: (Output)	5250N	5250N	5250N	5250N	5250N	5250N
Permissible axial load*: (Input)	4250N	4250N	4250N	4250N	4250N	4250N
Efficiency at max load:	>98%	>98%	>98%	>98%	>98%	>98%
Running noise at 1500rpm, partial load	≤ 78db(A)	≤ 78db(A)	≤ 78db(A)	≤ 78db(A)	≤ 78db(A)	≤ 78db(A)
Weight:	38.5kg	38.5kg	38.5kg	38.5kg	38.5kg	38.5kg
Service life:	>15,000h	>15,000h	>15,000h	>15,000h	>15,000h	>15,000h
Oil quantity:	1.0 litres	1.0 litres	1.0 litres	1.0 litres	1.0 litres	1.0 litres
Operating temperature:	Up to 80°C	Up to 80°C	Up to 80°C	Up to 80°C	Up to 80°C	Up to 80°C
Mass moments of inertia related to input for shaft arrangement 13:	85.9kg/cm ²	54.6kg/cm ²	39.3kg/cm ²	28.5kg/cm ²	24.5kg/cm ²	22.6kg/cm ²

*At centre of shaft

Order code:

P-	210-	2-	3-	4-	5-	6-	7
----	------	----	----	----	----	----	---

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:	210mm	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <p>L Series</p> </div> <div style="width: 50%;"> <p>H Series</p> </div> </div>
b dia:	205mmh7	
c dia:	160mm	
d1 dia:	50mmk6	
l1:	75mm	
d2 dia:	50mmk6	
d3 dia:	50mmH7	
l2:	75mm	
l3:	95mm	
l4:	65mm	
e:	105mm	
f1:	265mm	
f2:	202mm	
g1:	20mm	
g2:	20mm	
h:	85mm	
k:	M16x30mm	
m1:	190mm	
m2:	127mm	
n1:	2mm	
n2:	2mm	
p:	85mm	
r1:	M16	
r2:	M16	
s:	6x M8x14	
t:	10mm	
u dia:	158mmg6	
v dia:	142mm	
Key d1:	14x9x70mm	
Key d2:	14x9x70mm	
Z:	6mm	
Input shaft d1 dia x L1 with keyway to DIN6885/1	38mmG7 x 83mm / 10x8mm 42mmG7 x 115mm / 12x8mm 48mmG7x115mm / 14x9mm	
		<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <p>FL Series</p> </div> <div style="width: 50%;"> <p>FH Series</p> </div> </div>

Flange options:

Input flange B5 = u dia/ v dia/ w dia with 4x threaded holes:		250mm/ 215mm/ 180mmF7/ M12	300mm/ 265mm/ 230mmF7/ M12	350mm/ 300mm/ 250mmF7/ M16
Input flange B14 = u dia/ v dia/ w dia with 4x bored holes:				

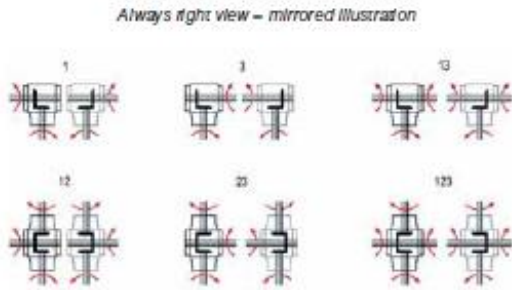
Thermal performance limit (P) = 21.2kW at 20°C and 100% duty cycle

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

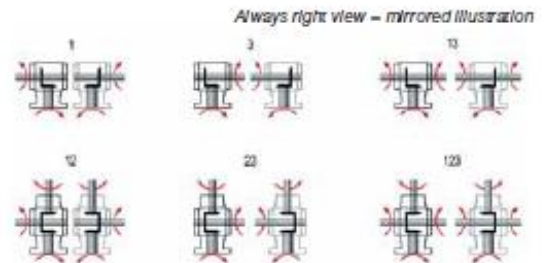
Eg: Duty cycle = 80%; ambient temp = 30°C

Therefore P = 21.2 x 1.2 x 0.87 = 22.13kW

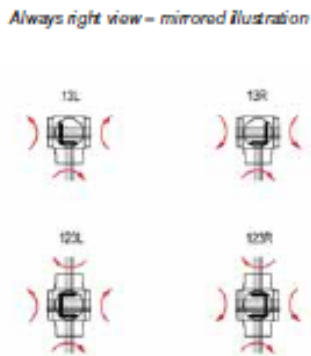
Shaft arrangements L:



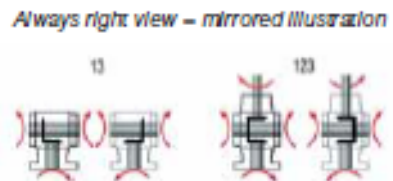
Shaft arrangements FL:



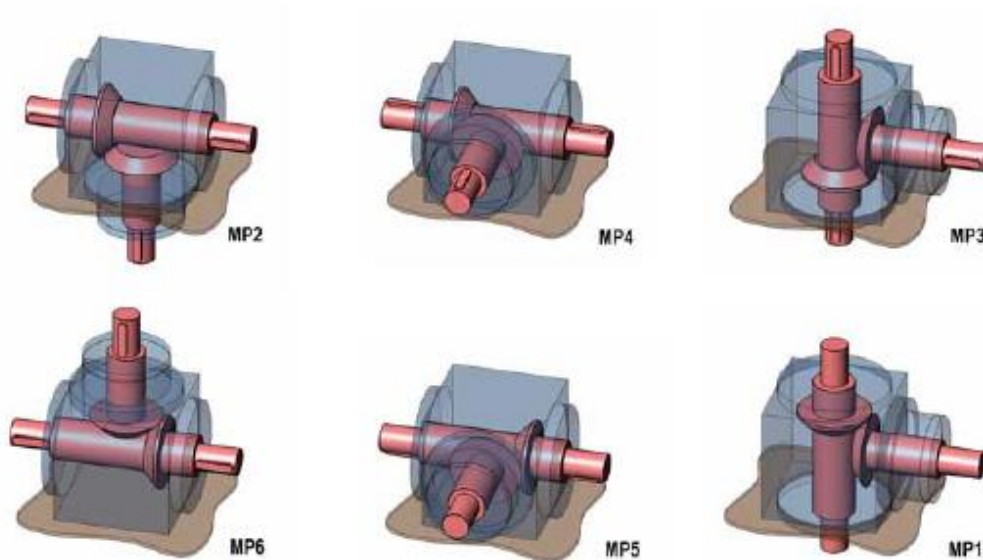
Shaft arrangements H:



Shaft arrangements FH:



Mounting positions:



For full specifications, see PowerGear catalogue.

Please note: P-210 supplied without lubricant. Please order separately.