

POWERGEAR DATA SHEET X-170



L Series

H Series

Specifications:

Ratio:	1:1
Nominal output torque:	1020Nm
Acceleration torque:	1530Nm
Emergency torque:	2040Nm
Input speed:	850rpm
Max input speed (Special measures on request)	1500rpm
Standard output backlash:	<=12 arcmin
Reduced output backlash:	<=6arcmin
Permissible radial load*: (Input)	7800N
Permissible radial load*: (Output)	11000N
Permissible axial load*: (Input)	3900N
Permissible axial load*: (Output)	5500N
Efficiency at max load:	>98%
Running noise at 1500rpm, partial load	78db(A)
Weight:	39.0kg
Service life:	>15,000h
Oil quantity:	1.0 litres
Operating temperature:	upto 80°C
Mass moments of inertia related to input for shaft arrangement 13:	142/cm ²

*At centre of shaft

Order code:

X-	170-	2-	3-	4-	5-	6-	7
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2:	Version:	L = solid shaft version; H = hollow shaft version
3:	Ratio:	1:1
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:	170mm	<p>L Series</p> <p>H Series</p>
b dia:	165mmh7	
c dia:	128mm	
d1 dia:	50mmk6	
l1:	80mm	
d2 dia:	50mmk6	
d3 dia:	40mmk6	
l2:	80mm	
l3:	95mm	
l4:	70mm	
e:	85mm	
f1:	255mm	
f2:	197mm	
g1:	15mm	
g2:	30mm	
h:	90mm	
k:	M12x23mm	
m1:	175mm	
m2:	80mm	
n1:	2mm	
n2:	2mm	
p:	67mm	
r1:	M16	
r2:	M16	
s:	-	
t:	-	
u dia:	-	
v dia:	-	
Key d1:	14x9x70mm	
Key d2:	14x9x70mm	
Z:	-	
Input shaft d1 dia x L1 with keyway to DIN6885/1	-	

Thermal performance limit (P) = 13.2kW at 20°C and 100% duty cycle

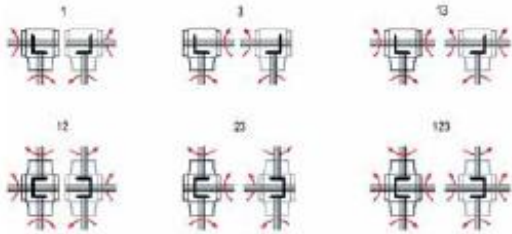
Duty cycle:	100%	80%	60%	40%	20%
Factor:	1.0	1.2	1.4	1.6	1.8
Ambient temp:	10°C	20°C	30°C	40°C	50°C
Factor:	1.2	1.0	0.87	0.75	0.62

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

Therefore P = 13.2 x 1.2 x 0.87 = 13.78kW

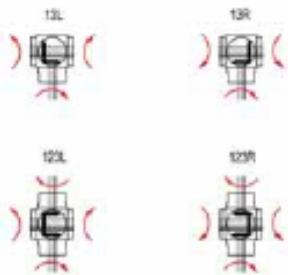
Shaft arrangements L:

Always right view – mirrored illustration

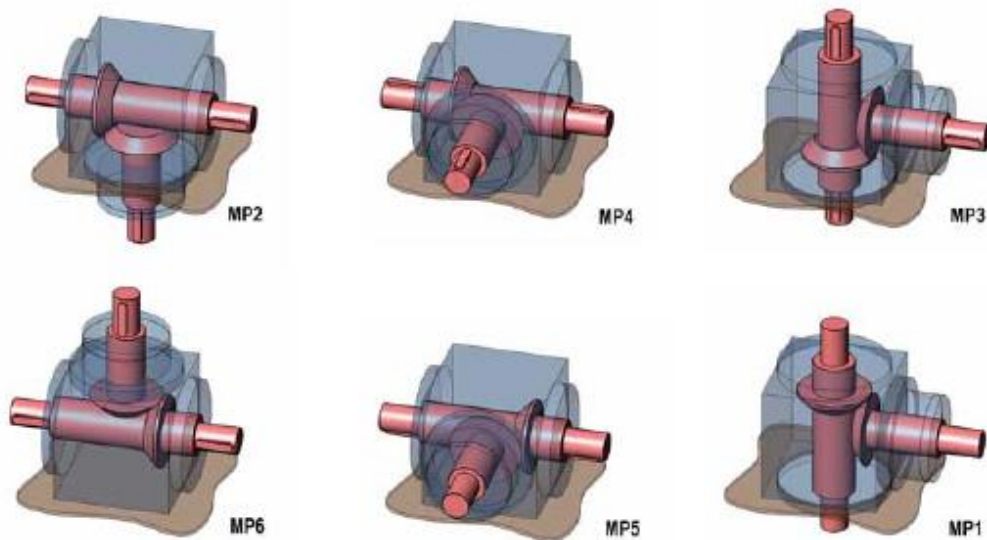


Shaft arrangements H:

Always right view – mirrored illustration



Mounting positions:



For full specifications, see PowerGear catalogue.