

POWERGEAR DATA SHEET X-110



L Series

H Series

Specifications:

Ratio:	1:1
Nominal output torque:	290Nm
Acceleration torque:	435Nm
Emergency torque:	580Nm
Input speed:	1100rpm
Max input speed (Special measures on request)	2000rpm
Standard output backlash:	<=13 arcmin
Reduced output backlash:	<=8arcmin
Permissible radial load*: (Input)	3500N
Permissible radial load*: (Output)	4500N
Permissible axial load*: (Input)	1750N
Permissible axial load*: (Output)	2250N
Efficiency at max load:	>98%
Running noise at 1500rpm, partial load	76db(A)
Weight:	13.5kg
Service life:	>15,000h
Oil quantity:	0.3 litres
Operating temperature:	upto 80°C
Mass moments of inertia related to input for shaft arrangement 13:	21.4/cm ²

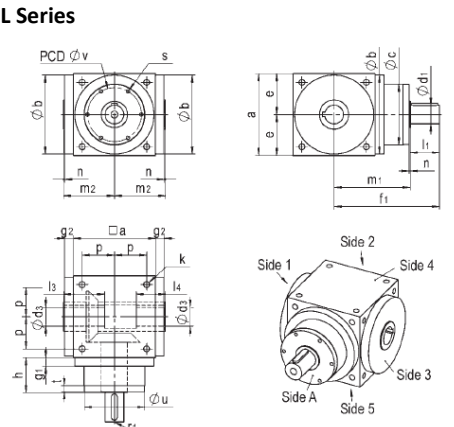
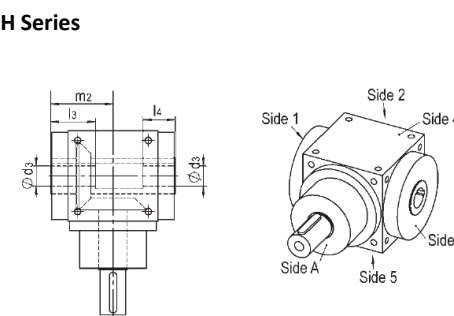
*At centre of shaft

Order code:

X-	110-	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:	110mm	<p>L Series</p>  <p>H Series</p> 
b dia:	108mmh7	
c dia:	106mm	
d1 dia:	35mmk6	
l1:	60mm	
d2 dia:	35mmk6	
d3 dia:	22mmk6	
l2:	60mm	
l3:	60mm	
l4:	45mm	
e:	55mm	
f1:	175mm	
f2:	140mm	
g1:	15mm	
g2:	23mm	
h:	60mm	
k:	M8x15.5mm	
m1:	115mm	
m2:	80mm	
n1:	2mm	
n2:	2mm	
p:	44mm	
r1:	M12	
r2:	M12	
s:	6xM6x12	
t:	8mm	
u dia:	107mmg6	
v dia:	92mm	
Key d1:	10x8x50mm	
Key d2:	10x8x50mm	
Z:	-	
Input shaft d1 dia x L1 with keyway to DIN6885/1	-	

Thermal performance limit (P) = 5.7kW at 20°C and 100% duty cycle

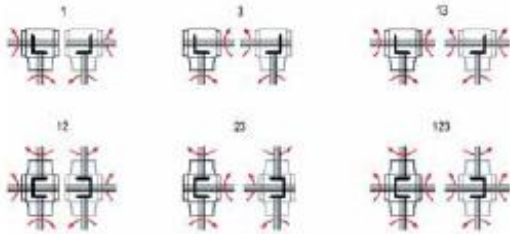
Duty cycle:	100%	80%	60%	40%	20%
Factor:	1.0	1.2	1.4	1.6	1.8
Ambient temp:	10°C	20°C	30°C	40°C	50°C
Factor:	1.2	1.0	0.87	0.75	0.62

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

Therefore P = 5.7 x 1.2 x 0.87 = 4.28kW

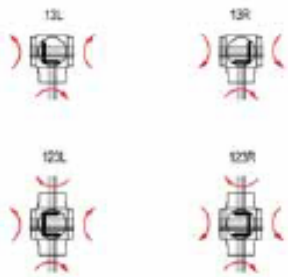
Shaft arrangements L:

Always right view – mirrored illustration

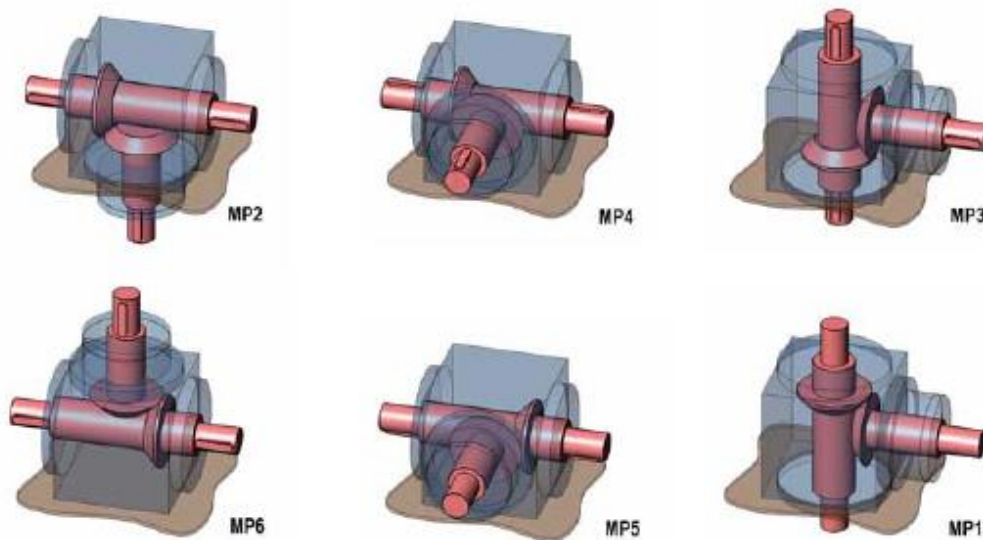


Shaft arrangements H:

Always right view – mirrored illustration



Mounting positions:



For full specifications, see PowerGear catalogue.