

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

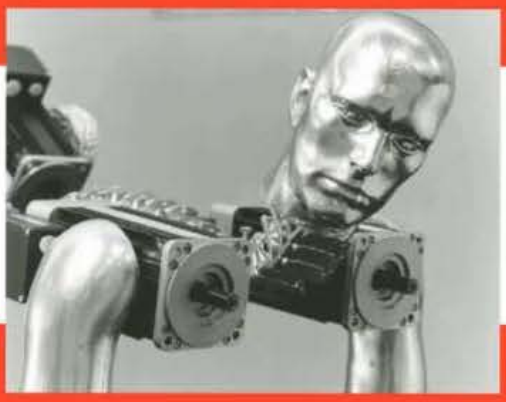
All trademarks, brand names, and brands appearing herein are the property of their respective owners.

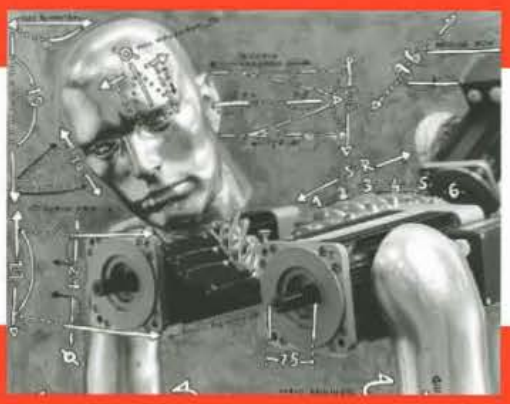
Find the *Motor Power EPG 51* at our website: *Click HERE*

EPG



PLANETARY GEARBOXES





MOTOR POWER COMPANY

www.motorpowergroup.com

EPG

The epicycloidal reducers series EPG is designed for the coupling with rotative motors range. Mounting EPG reducers makes the dimensions of the coupling part extremely compact, also thanks to the possibility of mounting the pinion directly on the motor shaft.

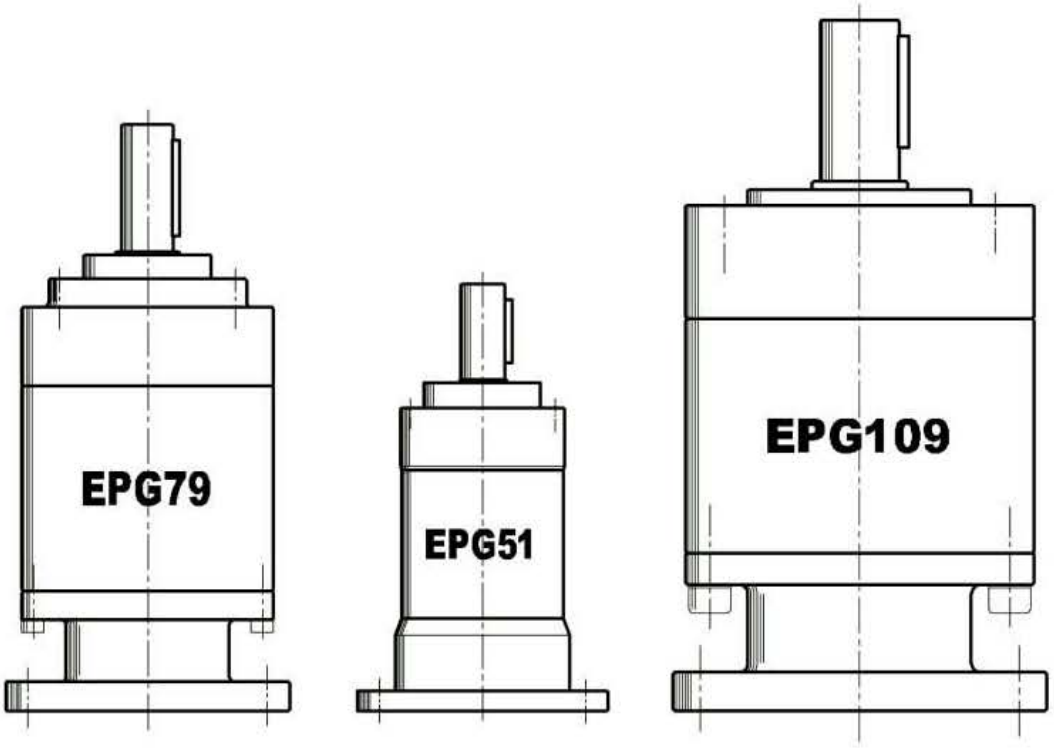


Gearbox Typ	Stages	Ratio	Rated Torque (Nm)	Peak Torque (Nm)	Rated Speed Input (rpm)	Max Speed Output (rpm)	Axial Load (N)	Radial Load (N)	Efficiency	Backlash	Diameter (mm)	Lenght (mm)
EPG51	1	1:3 1:4 1:5 1:6	7 *(3.5)	10 *(5)	3000	4000	140	310	0.94	≤15'	51 52	77
	2	1:9 1:12 1:15 1:16 1:18 1:20 1:24 1:25 1:30 1:36	15 *(10)	19 *(15)	3000	4000	140	310	0.91	≤20'	51 52	90
	3	1:45 1:48 1:54 1:60 1:64 1:72 1:75 1:80 1:90 1:96 1:100 1:108 1:120 1:125 1:144 1:150 1:180 1:216	25 *(22)	30 *(27)	3000	4000	140	310	0.89	≤25'	51 52	103
EPG79	1	1:3 1:4 1:5 1:6	28	40	3000	4000	350 **(1000)	600 **(2500)	0.94	≤15'	79	105.5
	2	1:9 1:12 1:15 1:16 1:18 1:20 1:24 1:25 1:30 1:36	44	70	3000	4000	350 **(1000)	600 **(2500)	0.91	≤18'	79	124.5
	3	1:45 1:48 1:54 1:60 1:64 1:72 1:75 1:80 1:90 1:96 1:100 1:108 1:120 1:125 1:144 1:150 1:180 1:216	75	120	3000	4000	350 **(1000)	600 **(2500)	0.89	≤23'	79	143.5
EPG109	1	1:3 1:4 1:5 1:6 1:9	80 100 80	100 180 100	3000	4000	800 **(1600)	1300 **(4000)	0.94	≤15'	109	126.5
	2	1:12 1:15 1:16 1:18 1:20 1:24 1:25 1:30 1:36	140	200	3000	4000	800 **(1600)	1300 **(4000)	0.91	≤18'	109	159
	3	1:45 1:48 1:54 1:60 1:64 1:72 1:75 1:80 1:90 1:96 1:100 1:108 1:120 1:125 1:144 1:150 1:180 1:216	190	320	3000	4000	800 **(1600)	1300 **(4000)	0.89	≤23'	109	191.5

* THIS VALUE IS REFERRED TO THE REDUCER WITH FIRST SPEED STAGE IN SYNTHETIC MATERIAL
**THIS VALUE IS REFERRED TO THE REDUCER WITH CONICAL BEARINGS

Copyright © 2004 Motor Power Company. All rights reserved. Contents are subjected to change without any notice. Edition 01/04

MOTOR POWER COMPANY



EPG SERIES

EPICYCLOIDAL REDUCER

FOR

POWER TRANSMISSION

Last revision 02/04/2002

SERIES

EPG 51 EPICYCLOIDAL REDUCERS

MOTOR POWER COMPANY

HOW TO ORDER AN EPG REDUCER

EPG	51	1	3	7	5	R	14	---
SERIES	TYPE	STAGES	RATIO	Ø INPUT SHAFT	INPUT FLANGE	OUTPUT FLANGE	Ø OUTPUT SHAFT	OPTIONS
EPG	51	1 2 3 Bigger stages on request	3 ÷ 216	7 9	**1**=*Penta1* **2**=*B14/56 Square* **5**=*B14/56 Round*	**R**=*D:37 (only with Ø14 shaft)* **S**=*D:32 (only with Ø12 shaft)*	**12** *(only with S flange)* **14** *(only with R flange)*	***02**=*synthetic material on first speed stage gears* ***XX**=Backlash on request (XX=g)* THESE OPTIONS MUST BE ORDERED SEPARATELY **51**= *output flange B5 D:80 (only with R flange)* **53**= *h:56 foot (only with R flange)*

PERFORMANCE CHARACTERISTICS

STAGES	RATIO	RATED TORQ.*(Nm)*	STARTING TORQ. *(Nm)*	RATED SPEED INPUT*(rpm)*	GIRI MAX INPUT *(rpm)*	AXIAL LOAD *(N)*	RADIAL LOAD *(N)*	EFFICIENCY	BACKLASH
1	1:3 1:4 1:5 1:6	7 *(3,5)	10 *(5)	3000	4000	140	310	0.94	≤ 15'
2	1:9 1:12 1:15 1:16 1:18 1:20 1:24 1:25 1:30 1:36	15 *(10)	19 *(15)	3000	4000	140	310	0.91	≤ 20'
3	1:45 1:48 1:54 1.60 1:64 1:72 1:75 1:80 1:90 1:96 1:100 1:108 1:120 1:125 1:144 1:150 1:180 1:216	25 *(22)	30 *(27)	3000	4000	140	310	0.89	≤ 25'

Gioco: Gioco max (ARC/min) misurato sull'albero in uscita (output) con albero in entrata (input) bloccato, applicando una coppia pari al 2% della coppia nominale.
Coppia nominale: Coppia continua sopportabile alla velocità nominale con durata >10000 ore.
Coppia di spunto: Coppia pulsante accettabile durante un ciclo di lavoro.

Lubrification : **LONG – LIFE**
Protection class : **IP65**

**THIS VALUE IS REFERED TO THE REDUCER WITH FIRST SPEED STAGE IN SYNTHETIC MATERIAL*

THE MANUFACTURER RESERVES THE RIGHT TO MODIFY THE PRODUCT WITHOUT NOTICE

SERIES

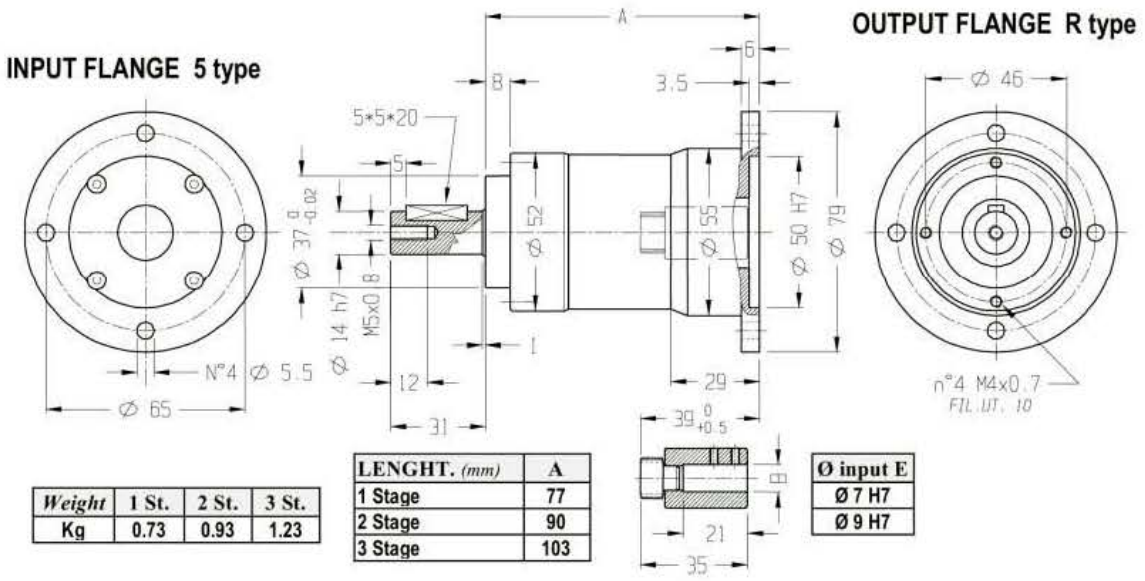
EPG 51

EPICYCLOIDAL REDUCERS

DIMENSIONS *(mm)*

MOTOR POWER COMPANY

STANDARD

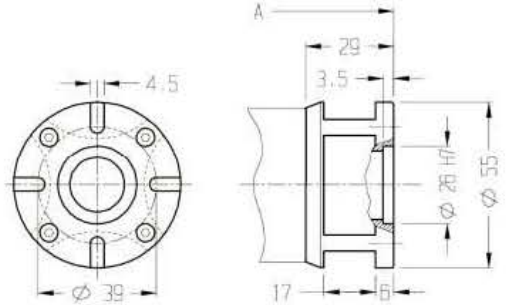


Weight	1 St.	2 St.	3 St.
Kg	0.73	0.93	1.23

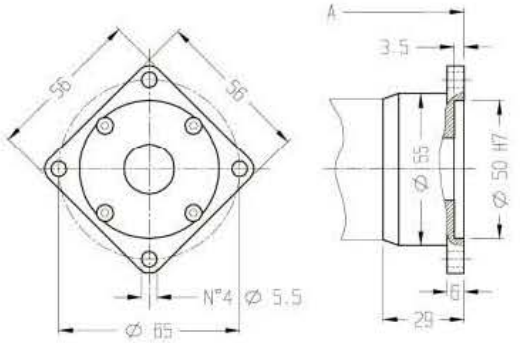
LENGHT. *(mm)*	A
1 Stage	77
2 Stage	90
3 Stage	103

Ø input E
Ø 7 H7
Ø 9 H7

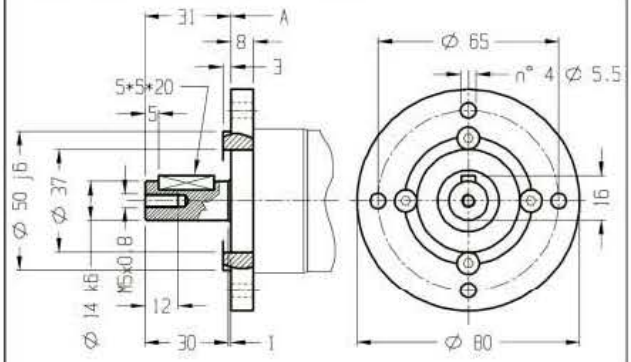
PENTA 1 INPUT FLANGE type 1



B14/56 SQUARE INPUT FLANGE type 2

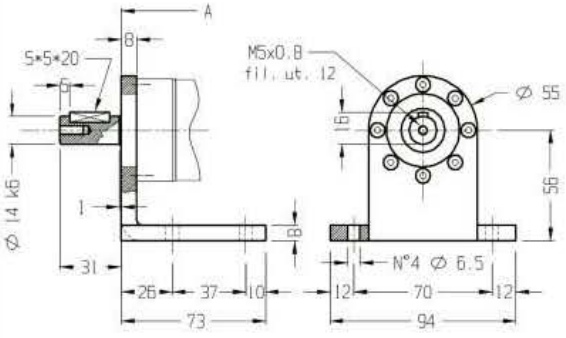


B5 D:80 OUTPUT FLANGE opt 51



Couple only with R type flange

H=56 FOOT opt 53



Couple only with R type flange

THE MANUFACTURER RESERVES THE RIGHT TO MODIFY THE PRODUCT WITHOUT NOTICE

SERIES

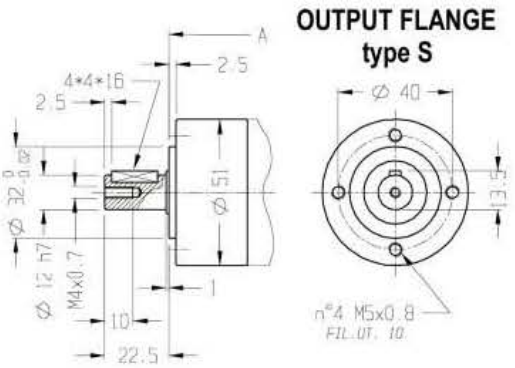
EPG 51

EPICYCLOIDAL REDUCERS

DIMENSIONS *(mm)*

MOTOR POWER COMPANY

Ø 12 OUTPUT SHAFT



Couple only with S type flange

THE MANUFACTURER RESERVES THE RIGHT TO MODIFY THE PRODUCT WITHOUT NOTICE

SERIES

EPG 79 EPICYCLOIDAL REDUCERS

MOTOR POWER COMPANY

HOW TO ORDER AN EPG REDUCER

EPG	79	1	3	9	6	R	16	---
SERIES	TYPE	STAGES	RATIO	Ø INPUT SHAFT	INPUT FLANGE	OUTPUT FLANGE	Ø OUTPUT SHAFT	OPTIONS
EPG	79	1 2 3	3 ÷ 216 Bigger stages on request	**9** **11** **14** **19** *(only with flange 4 and option 51)*	**3**=*B5/56 T85 1,2-2,2 Ø14 shaft* **4**=*B5/56 T85 3,2-4,2 Ø19 shaft* **5**=*B14/56 Round* **6**=*B14/63 Round*	**R**=*D:40 (only with Ø16 shaft)* **S**=*D:50 (only with Ø19 shaft)*	**16** *(only with R flange)* **19** *(only with S flange)*	* **00**= *conical bearings* **XX**=*backlash on request (XX=g)* THESE OPTIONS MUST BE ORDERED SEPARATELY **51**= *B5/71 input flange (only with flange 6)* **53**= *h:63 foot (only with R flange)* **54**= *B5 D:90 output flange (only with R flange)*

PERFORMANCE CHARACTERISTICS

STAGES	RATIO	RATED TORQ.(Nm)	STARTING TORQ. (Nm)	RATED SPEED INPUT(rpm)	GIRI MAX INPUT (rpm)	AXIAL LOAD (N)	RADIAL LOAD (N)	EFFICIENCY	BACKLASH
1	1:3 1:4 1:5 1:6	28	40	3000	4000	350 *(1000)	600 *(2500)	0.94	≤ 15'
2	1:9 1:12 1:15 1:16 1:18 1:20 1:24 1:25 1:30 1:36	44	70	3000	4000	350 *(1000)	600 *(2500)	0.91	≤ 18'
3	1:45 1:48 1:54 1.60 1:64 1:72 1:75 1:80 1:90 1:96 1:100 1:108 1:120 1:125 1:144 1:150 1:180 1:216	75	120	3000	4000	350 *(1000)	600 *(2500)	0.89	≤ 23'

Gioco: Gioco max (ARC/min) misurato sull'albero in uscita (output) con albero in entrata (input) bloccato, applicando una coppia pari al 2% della coppia nominale.
Coppia nominale: Coppia continua sopportabile alla velocità nominale con durata >10000 ore.
Coppia di spunto: Coppia pulsante accettabile durante un ciclo di lavoro.

Lubrification : **LONG – LIFE**
Protection class : **IP65**

THE MANUFACTURER RESERVES THE RIGHT TO MODIFY THE PRODUCT WITHOUT NOTICE

SERIES

EPG79

EPICYCLOIDAL REDUCERS

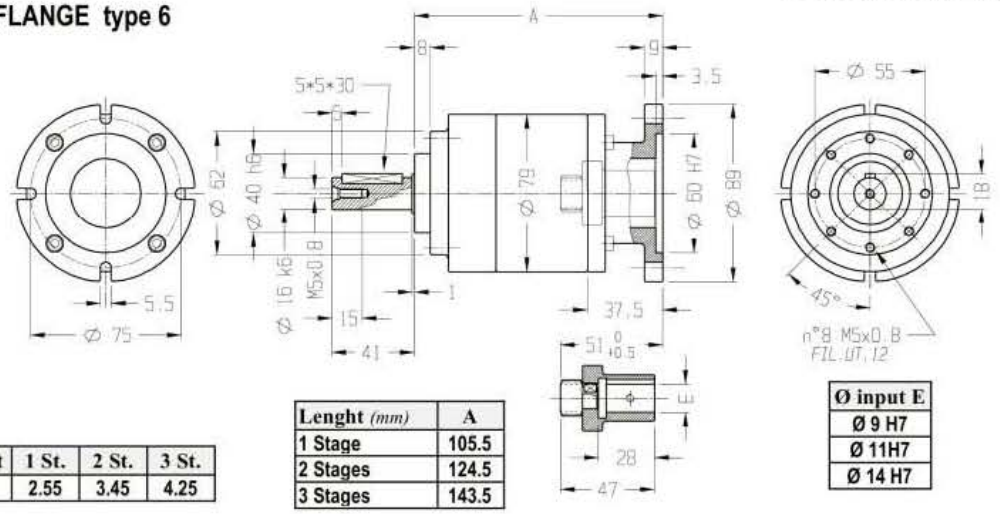
DIMENSIONS *(mm)*

MOTOR POWER COMPANY

STANDARD

INPUT FLANGE type 6

OUTPUT FLANGE R type

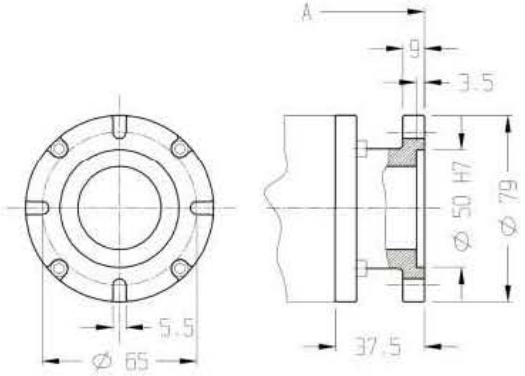


weight	1 St.	2 St.	3 St.
Kg	2.55	3.45	4.25

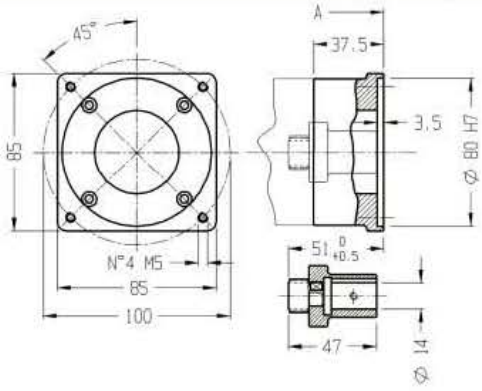
Lenght *(mm)*	A
1 Stage	105.5
2 Stages	124.5
3 Stages	143.5

Ø input E
Ø 9 H7
Ø 11H7
Ø 14 H7

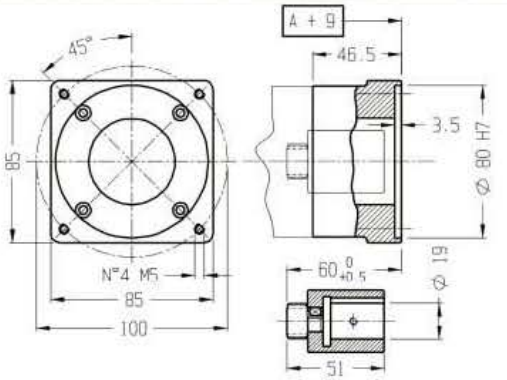
B14/56 ROUND INPUT FLANGE type 5



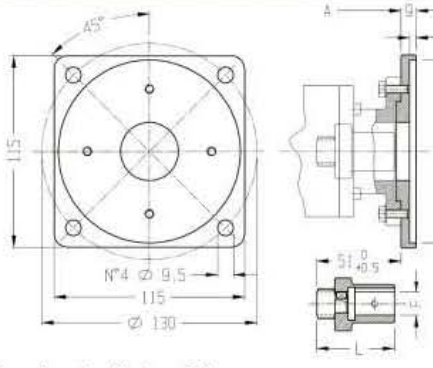
B5/56 INPUT FLANGE FOR T85 1,2 - 2,2 Ø14 type 3



B5/56 INPUT FLANGE FOR T85 3,2 - 4,2 Ø19 type 4



B5/71 INPUT FLANGE opt 51



Ø E	L
Ø 14	47
Ø 19	51

Couple only with type 6 flange

THE MANUFACTURER RESERVES THE RIGHT TO MODIFY THE PRODUCT WITHOUT NOTICE.

SERIES

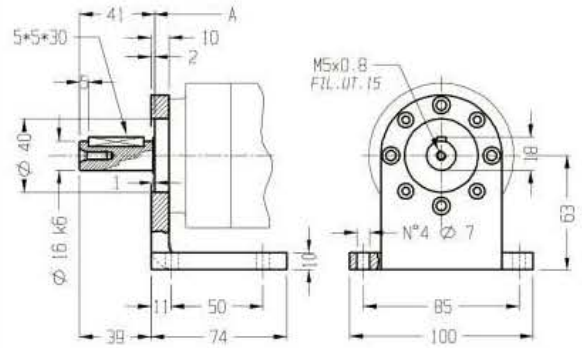
EPG 79

EPICYCLOIDAL REDUCERS

DIMENSIONS *(mm)*

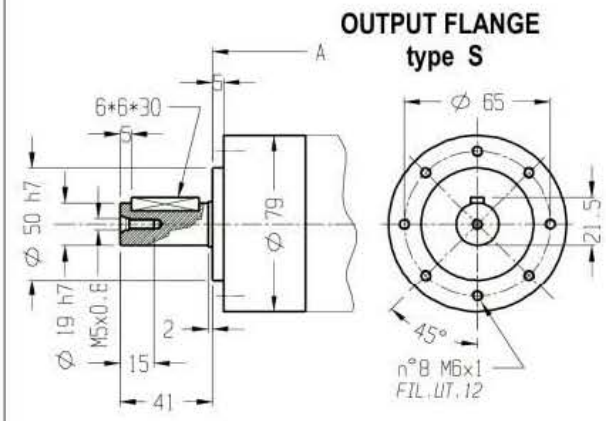
MOTOR POWER COMPANY

H=63 FOOT opt 53



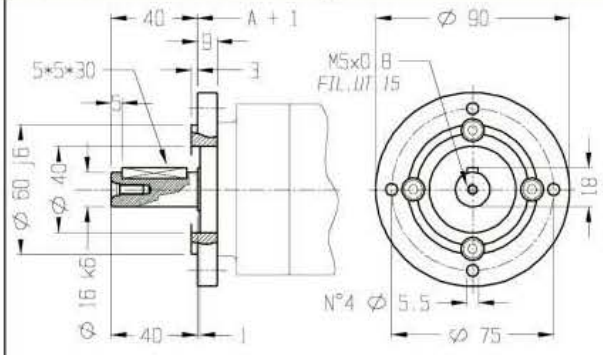
Couple only with type R flange

Ø 19 OUTPUT SHAFT



Couple only with type S flange

OUTPUT FLANGE B5 D:90 opt 54



Couple only with type R flange

THE MANUFACTURER RESERVES THE RIGHT TO MODIFY THE PRODUCT WITHOUT NOTICE.

SERIES

EPG109 EPICYCLOIDAL REDUCERS

MOTOR POWER COMPANY

HOW TO ORDER AN EPG REDUCER

EPG	51	1	3	14	8	S	25	---
SERIES	TYPE	STAGES	RATIO	Ø INPUT SHAFT	INPUT FLANGE	OUTPUT FLANGE	Ø OUTPUT SHAFT	OPTIONS
EPG	109	1 2 3	3 ÷ 216 Bigger stages on request	14 19	**2**=*B5/71 Square* **8**=*B5/56 Round*	**S**=*D:70 (only with Ø25 shaft)*	**25** *(only with S flange)*	***00**=conical bearings **XX**=*backlash on request (XX=g)* THIS OPTION MUST BE ORDERED SEPARATELY **53**= *h:71 foot (only with S flange)*

PERFORMANCE CHARACTERISTICS

STAGES	RATIO	RATED TORQ.*(Nm)*	STARTING TORQ. *(Nm)*	RATED SPEED INPUT*(rpm)*	MAX INPUT SPEED *(rpm)*	AXIAL LOAD *(N)*	RADIAL LOAD *(N)*	EFFICIENCY	BACKLASH
1	1:3	80	100	3000	4000	800 *(1600)	1300 *(4000)	0.94	≤ 15'
	1:4	100	180						
	1:5								
	1:6								
2	1:9	80	100	3000	4000	800 *(1600)	1300 *(4000)	0.91	≤ 18'
	1:12	140	200						
	1:15								
	1:16								
	1:18								
	1:20								
	1:24								
	1:25								
	1:30								
	1:36								
3	1:45	190	320	3000	4000	800 *(1600)	1300 *(4000)	0.89	≤ 23'
	1:48								
	1:54								
	1.60								
	1:64								
	1:72								
	1:75								
	1:80								
	1:90								
	1:96								
	1:100								
	1:108								
	1:120								
	1:125								
	1:144								
	1:150								
	1:180								
	1:216								

- Gioco: Gioco max (ARC'/min) misurato sull'albero in uscita (output) con albero in entrata (input) bloccato, applicando una coppia pari al 2% della coppia nominale.
- Coppia nominale: Coppia continua sopportabile alla velocità nominale con durata >10000 ore.
- Coppia di spunto: Coppia pulsante accettabile durante un ciclo di lavoro.

Lubrification : **LONG – LIFE**
Protection class : **IP65**

THE MANUFACTURIER RESERVES THE RIGHT TO MODIFY THE PRODUCT WITHOUT NOTICE.

SERIES

EPG109

EPICYCLOIDAL REDUCERS

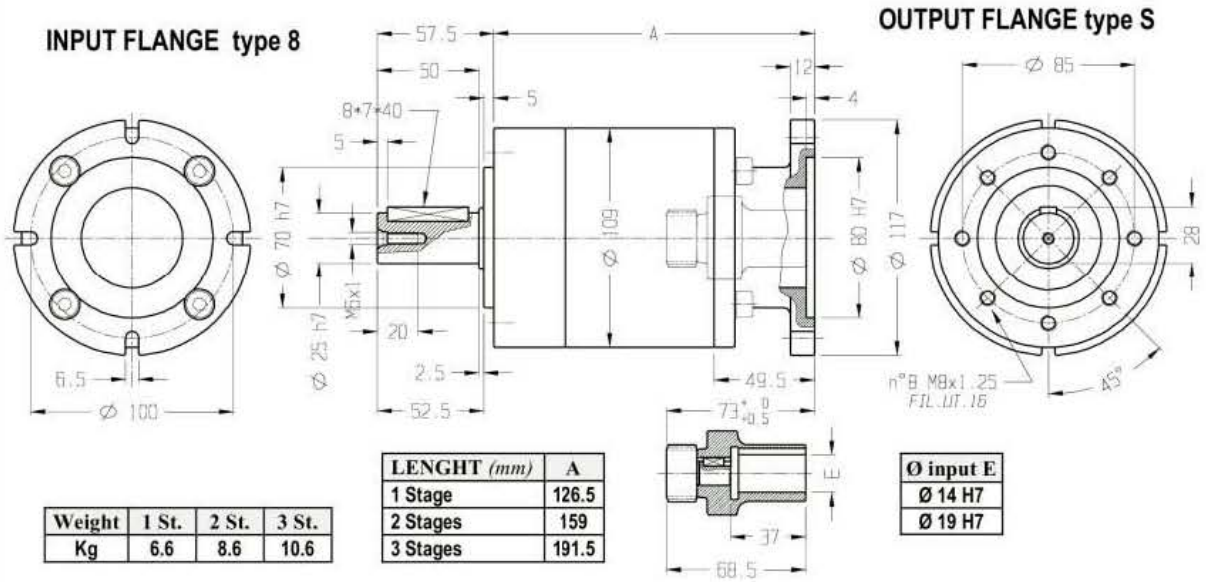
DIMENSIONS *(mm)*

MOTOR POWER COMPANY

STANDARD

INPUT FLANGE type 8

OUTPUT FLANGE type S

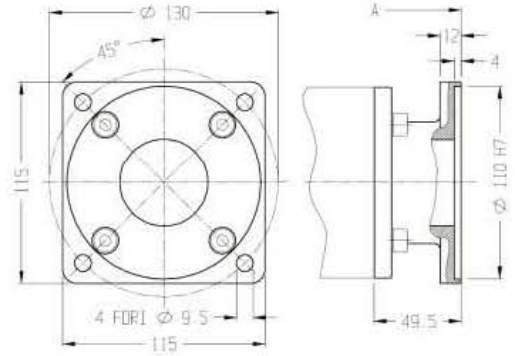


Weight	1 St.	2 St.	3 St.
Kg	6.6	8.6	10.6

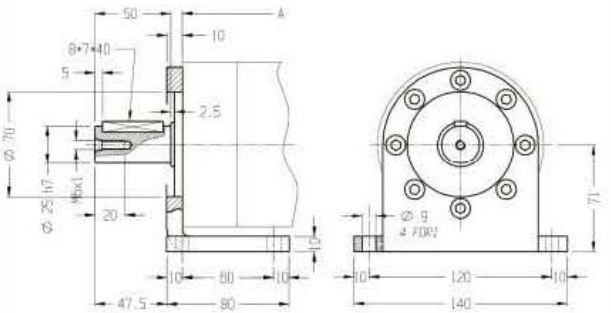
LENGHT *(mm)*	A
1 Stage	126.5
2 Stages	159
3 Stages	191.5

Ø input E
Ø 14 H7
Ø 19 H7

B5/71 SQUARE INPUT FLANGE type 2



H=71 FOOT opt 53



Couple only with type S flange

THE MANUFACTURER RESERVES THE RIGHT TO MODIFY THE PRODUCT WITHOUT NOTICE

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP