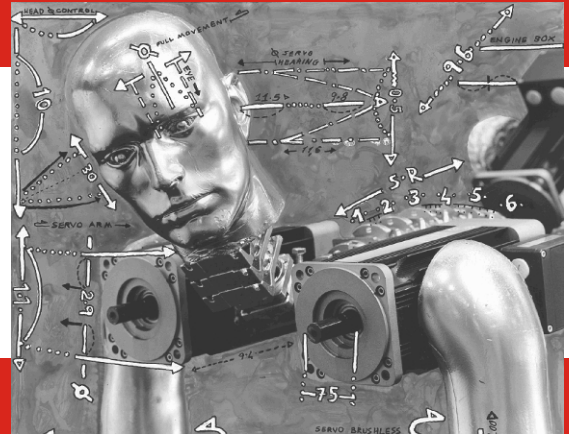
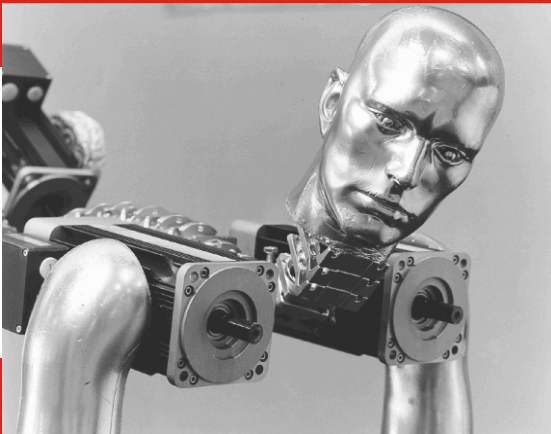




EPG

PLANETARY GEARBOXES



**MOTOR
POWER
COMPANY**

www.motorpowergroup.com

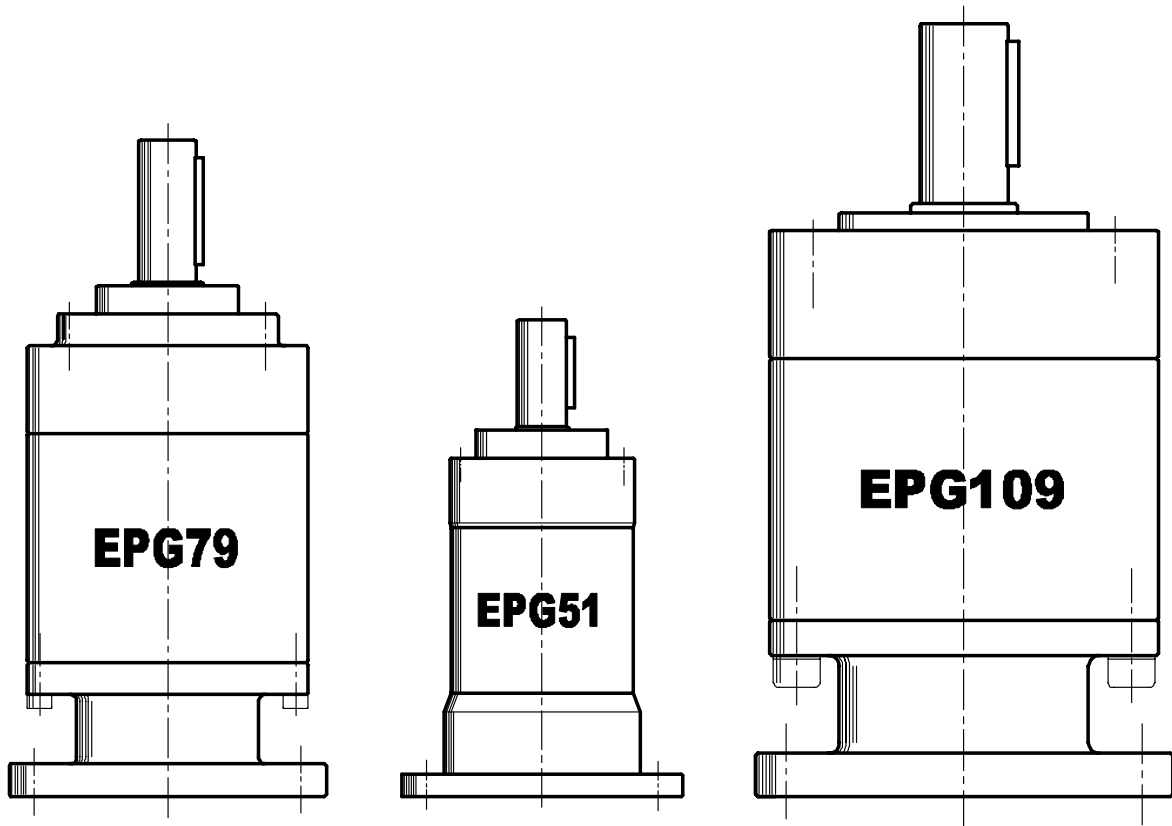
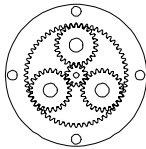


The epicycloidal reducers series EPG is designed for the coupling with rotative motors range. Mounting EPG reducers makes the dimensions of the coupling part extremely compact, also thanks to the possibility of mounting the pinion directly on the motor shaft.



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



EPG SERIES

EPICYCLOIDAL REDUCER

FOR

POWER TRANSMISSION

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	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.
1	1:3	7 *(3,5)	10 *(5)	3000	4000	140	310	0.94	≤ 15'	
	1:4									
	1:5									
	1:6									
2	1:9	15 *(10)	19 *(15)	3000	4000	140	310	0.91	≤ 20'	
	1:12									
	1:15									
	1:16									
	1:18									
	1:20									
	1:24									
	1:25									
	1:30									
1:36										
3	1:45	25 *(22)	30 *(27)	3000	4000	140	310	0.89	≤ 25'	
	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										

Lubrification : **LONG – LIFE**

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

Protection class : **IP65**

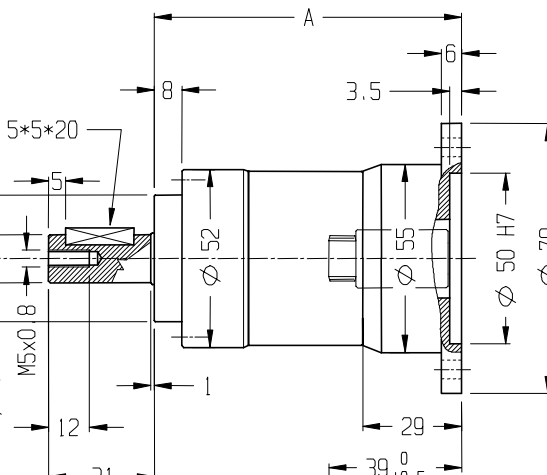
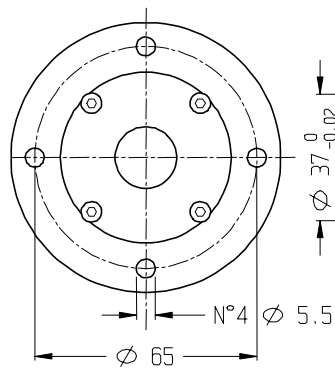
THE MANUFACTURER RESERVES THE RIGHT TO MODIFY THE PRODUCT WITHOUT NOTICE

EPG 51

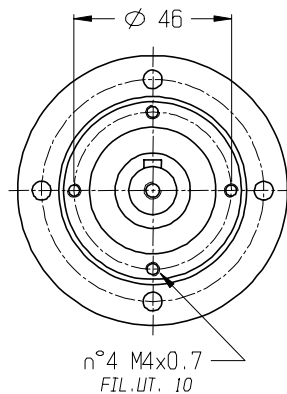
DIMENSIONS (mm)

STANDARD

INPUT FLANGE 5 type



OUTPUT FLANGE R type

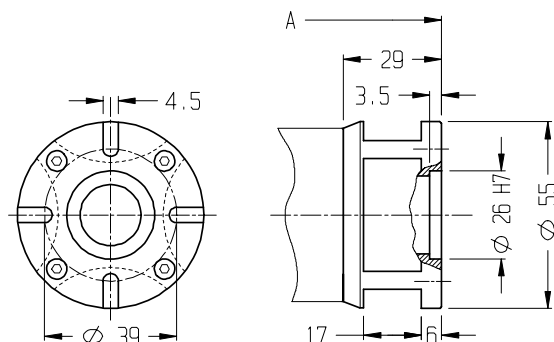


Weight Kg	1 St.	2 St.	3 St.
	0.73	0.93	1.23

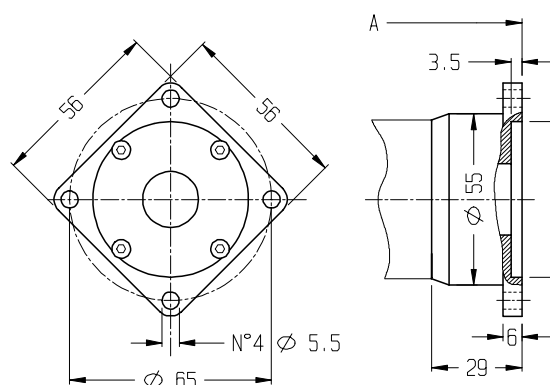
LENGHT. (mm)	A
1 Stage	77
2 Stage	90
3 Stage	103

Ø input E
Ø 7 H7
Ø 9 H7

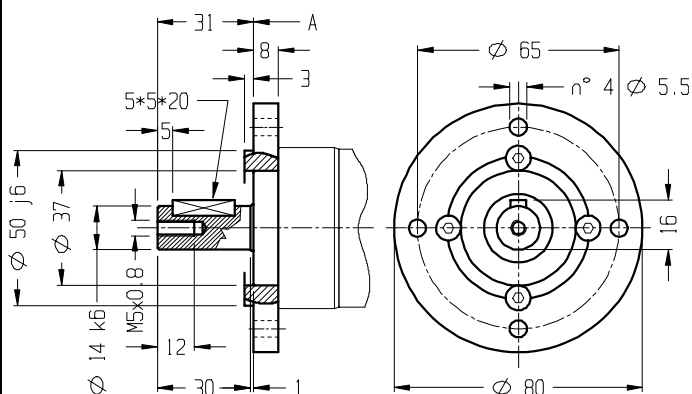
PENTA 1 INPUT FLANGE type 1



B14/56 SQUARE INPUT FLANGE type 2

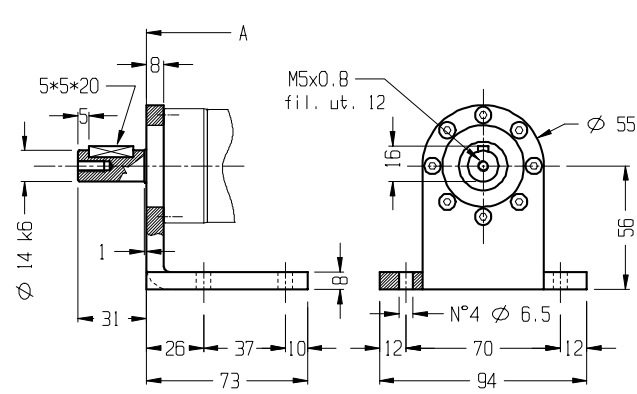


B5 D:80 OUTPUT FLANGE opt 51



Couple only with R type flange

H=56 FOOT opt 53

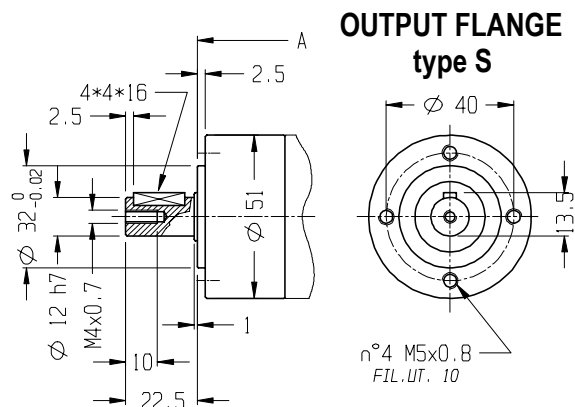


Couple only with R type flange

EPG 51

DIMENSIONS (mm)

Ø 12 OUTPUT SHAFT



Couple only with S type flange

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	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.									
1	1:3	28	40	3000	4000	350 *(1000)	600 *(2500)	0.94	≤ 15'										
	1:4																		
	1:5																		
	1:6																		
2	1:9	44	70	3000	4000	350 *(1000)	600 *(2500)	0.91	≤ 18'										
	1:12																		
	1:15																		
	1:16																		
	1:18																		
	1:20																		
	1:24																		
	1:25																		
	1:30																		
	1:36																		
	3										1:45	75	120	3000	4000	350 *(1000)	600 *(2500)	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																			

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

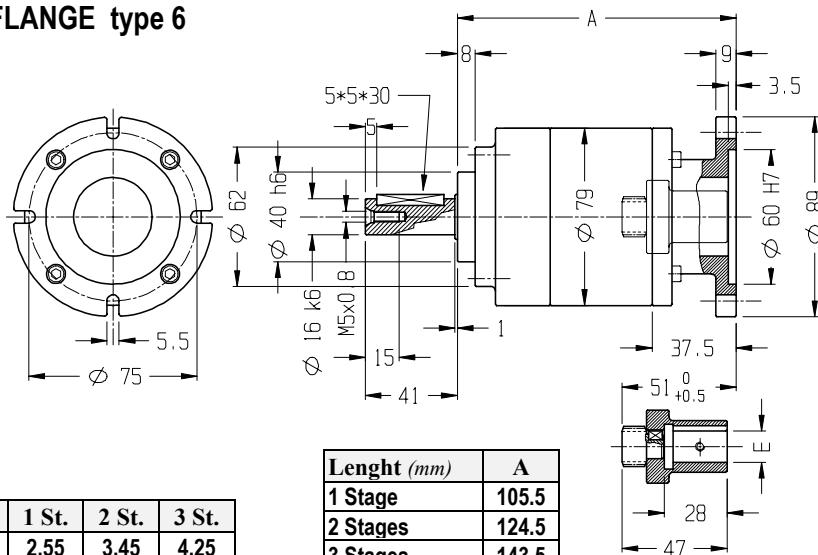
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EPG79

DIMENSIONS (mm)

STANDARD

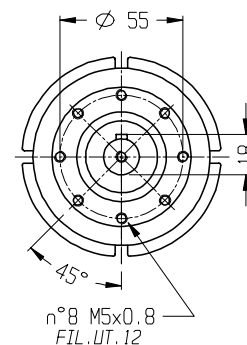
INPUT FLANGE type 6



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

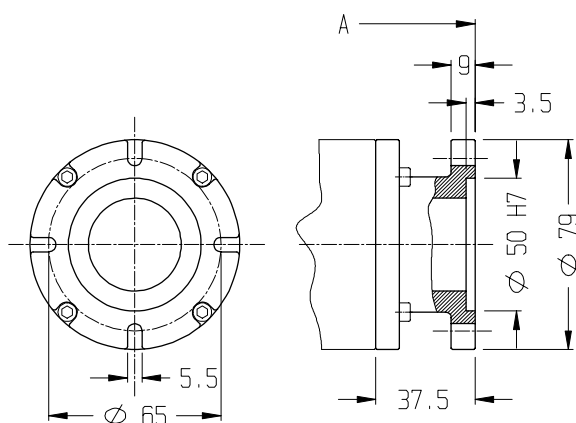
Lenght (mm)	A
1 Stage	105.5
2 Stages	124.5
3 Stages	143.5

OUTPUT FLANGE R type

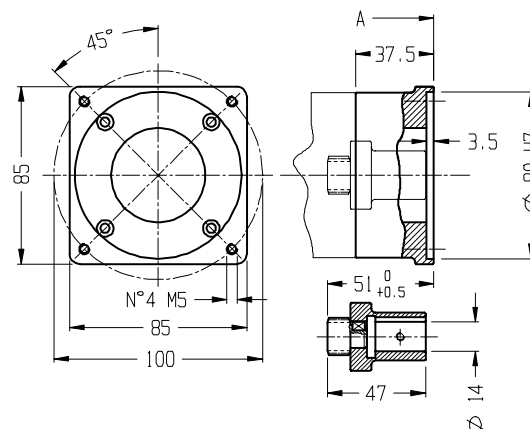


Ø input E
Ø 9 H7
Ø 11 H7
Ø 14 H7

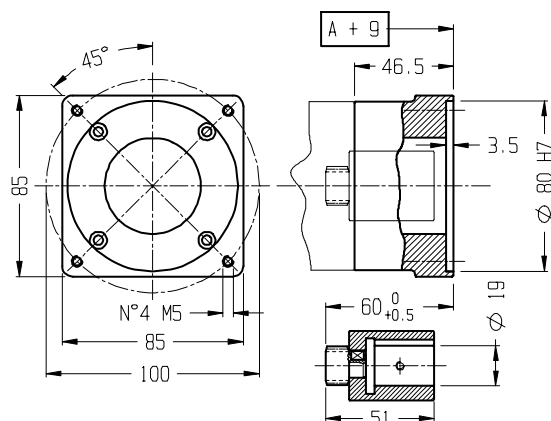
B14/56 ROUND INPUT FLANGE type 5



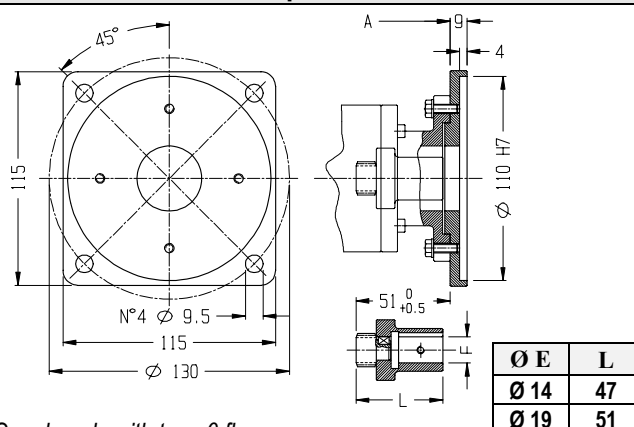
B5/56 INPUT FLANGE FOR T85 1,2 - 2,2 Ø14 type 3



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



B5/71 INPUT FLANGE opt 51



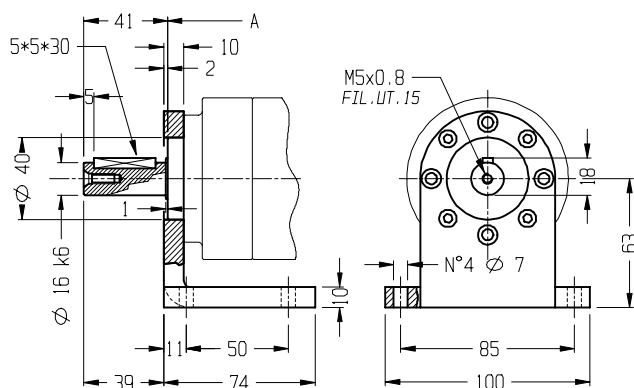
Couple only with type 6 flange

Ø E	L
Ø 14	47
Ø 19	51

EPG 79

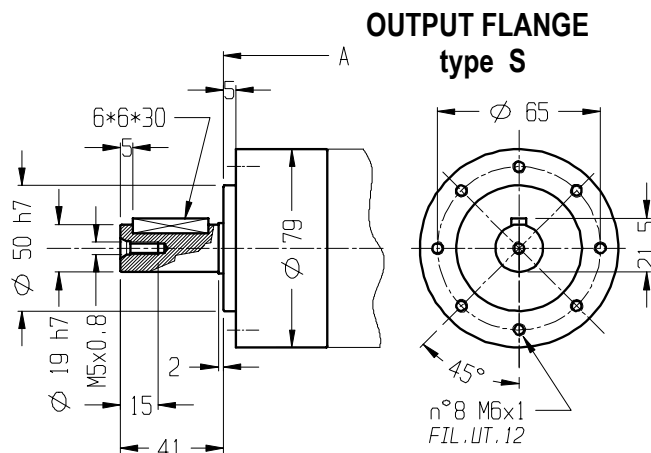
DIMENSIONS (mm)

H=63 FOOT opt 53



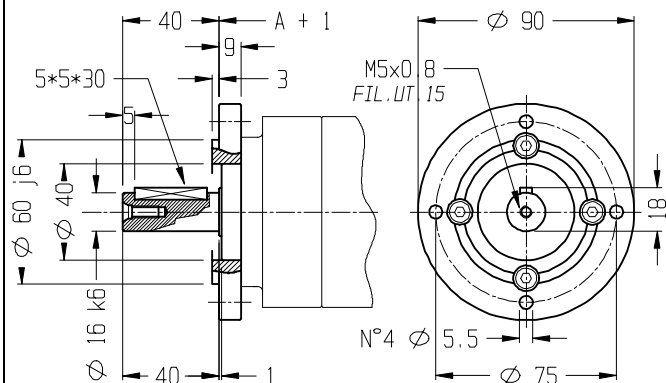
Couple only with type R flange

Ø 19 OUTPUT SHAFT



Couple only with type S flange

OUTPUT FLANGE B5 D:90 opt 54



Couple only with type R flange

EPG109 EPICYCLOIDAL REDUCERS



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	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.
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										

Lubrication : **LONG – LIFE**

Protection class : **IP65**

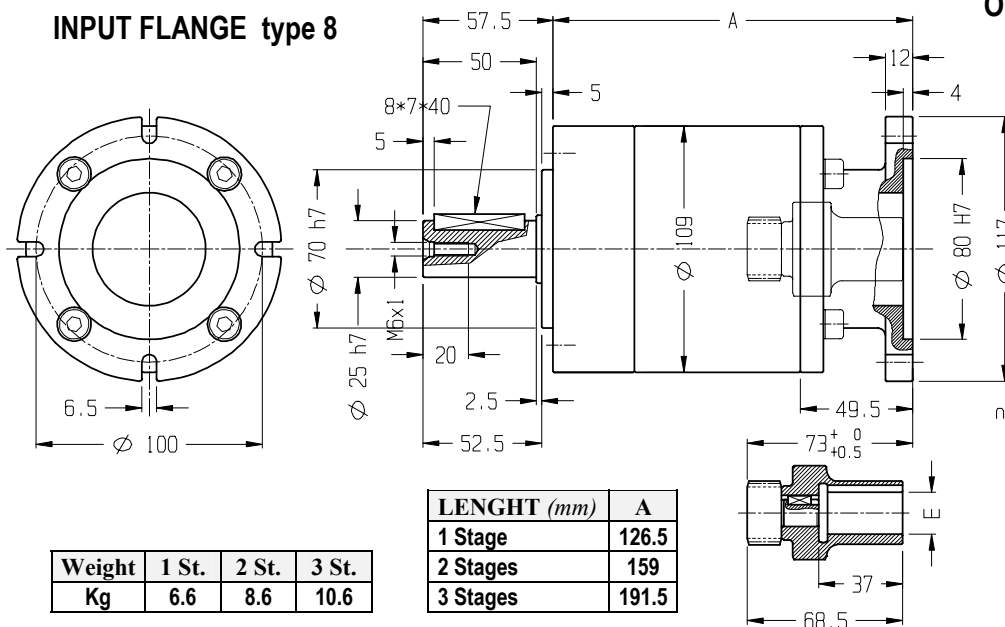
THE MANUFACTURIER RESERVES THE RIGHT TO MODIFY THE PRODUCT WITHOUT NOTICE.

EPG109

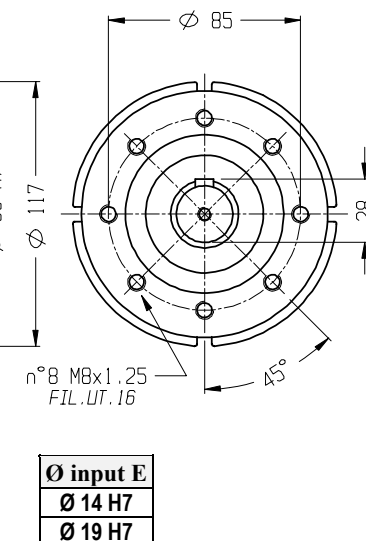
DIMENSIONS (mm)

STANDARD

INPUT FLANGE type 8

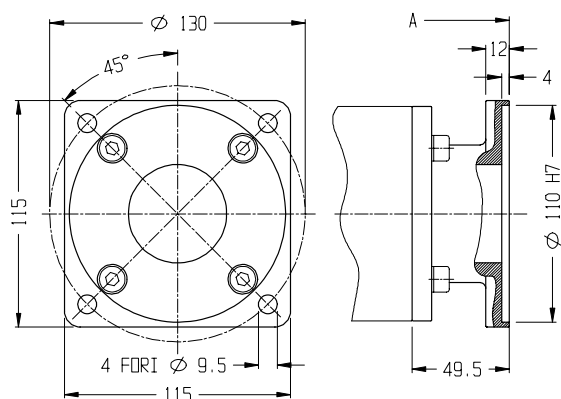


OUTPUT FLANGE type S

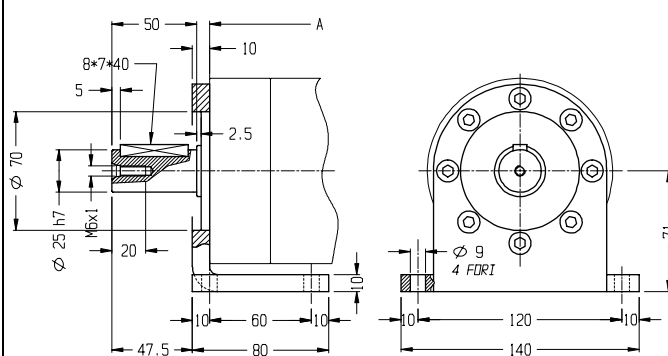


Ø input E
Ø 14 H7
Ø 19 H7

B5/71 SQUARE INPUT FLANGE type 2



H=71 FOOT opt 53



Couple only with type S flange