



## **POULIBLOC**

### **Shaft mount speed reducer**

# POULIBLOC 2000

Available in 8 sizes up to 55 kW  
4 standard reduction ratios  
1/5 - 1/12 - 1/20 - 1/25

Unique taper bushing design for easy and versatile mounting on driven shaft.

A wide range of bushing bore sizes is available for each type of reducer.



Easily installed back-to-top.



Magnetic plug as standard.

Torque arm bracket can be mounted in three positions



Torque arm with tensioner and bushing spanner wrench are supplied as standard.



Ribbed housing is precision machined in matched pairs for maximum strength, rigidity and permanent gear alignment.

Hollow shaft protected by removable cap.

Case carbonized gears to 60/64 Rockwell C. Ground, crown shaved or skived helical gears.

Oversized taper roller and ball bearings. Standard double lip seals on ground and polished shafts.

# with exclusive taper bushing feature

## Selection

**Class I** ( $K_p=1$ )

**Poulibloc (Pb) gearbox : N plain form, with B taper bush (Pb 2005 to Pb 2720)** Input shaft mounting **AP**

**10 to 355 min<sup>-1</sup>**

LS motors, power kW

2 stages, reductions : 12, 15, 20 and 25

Output speed min <sup>-1</sup>	0,37	0,55	0,75	0,9	1,1	1,5	1,8	2,2	3	4	5,5	7,5	9	11	15	18,5	22	30	37	45	55	
10				2125																		
11.2																						
12.5																						
14		2025																				
16					2125																	
18																						
20																						
22.5																						
25																						
28		2020																				
31.5																						
35.5																						
40																						
45																						
50																						
56				2015																		
63																						
71																						
80																						
90																						
100																						
112																						
125																						
140																						
1 stage, reduction : 5																						
50																						
56																						
63																						
71																						
80																						
90																						
100																						
112																						
125																						
140																						
160																						
180																						
200																						
225																						
250																						
280																						
315																						
355																						

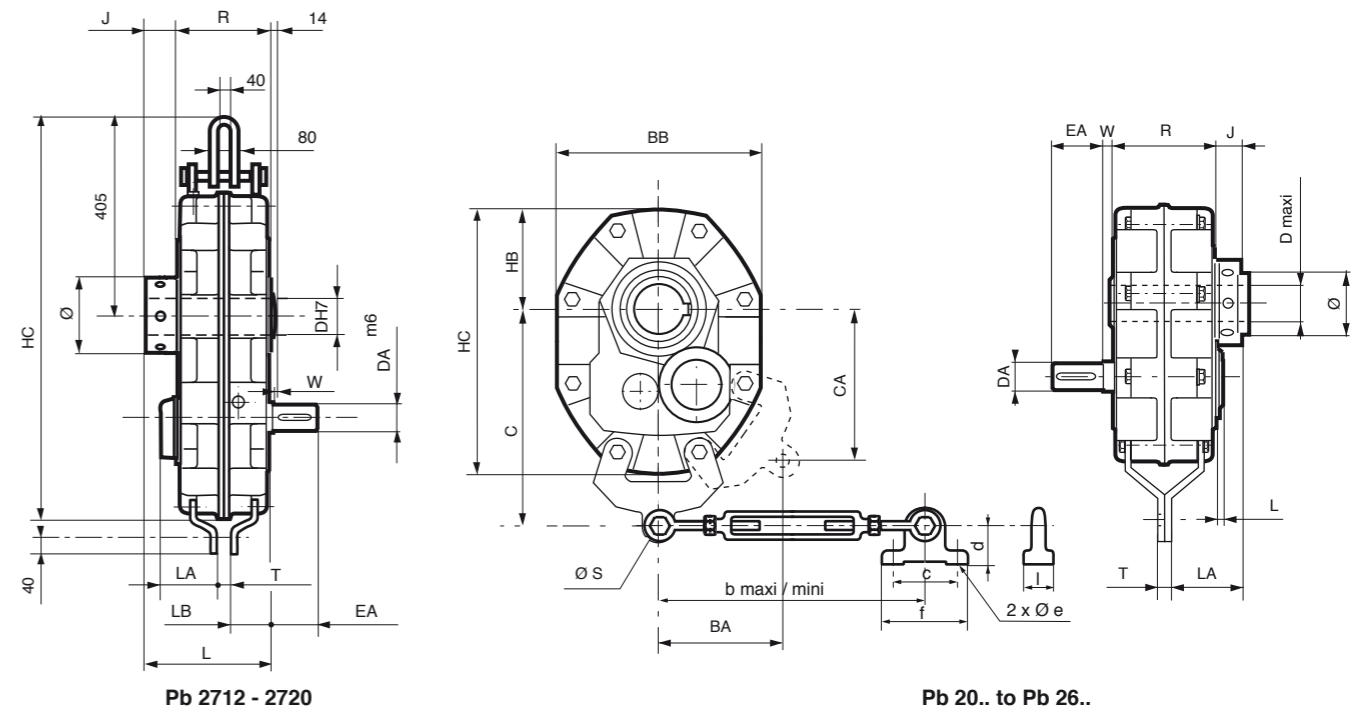
\* A specially designed ventilation system is required for continuous duty (or use a larger size).  
The ratio of pulley diameters is from 1/1 to 1/3, the Poulibloc reduction is selected according to the pulley ratio.

### Selection :

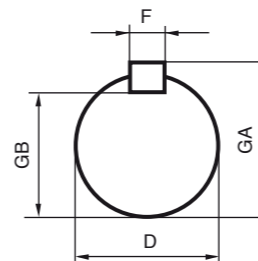
Required power :	4 kW
Required speed :	60 min <sup>-1</sup>
Duty factor necessary for the application :	K = 1
Diameter of driven shaft :	45
Mounting :	taper bush

Designation : Pb 2112 B Ø 45 (motor : 4P LS 112, 4 kW, pulley ratio 1/2)  
or Pb 2120 Ø 45 (motor : 4P LS 112, 4 kW, pulley ratio 1/1,2)

## Dimensions



Type	Main dimensions																	Torque arm							
	BA	BB	C	CA	D	DA	EA	HB	HC	J	L	LA	LB	R	S	T	W	Ø	b max	b min	c	d	e	f	l
Pb 27 --	253	550	-	521	120	65	130	280	890	80	310	146	104	230	32	38	8	280	840	670	210	80	32	280	80
Pb 26 --	247	410	439	307	100	55	120	191	522	59	23	155	238	238	17	20	6	135	590	430	105	45	17	144	50
Pb 2605	245	410	439	306	100	48	120	191	522	61	23	157	238	238	17	20	6	135	590	430	105	45	17	144	50
Pb 25 --	212	357	377	264	85	50	110	165	452	50	24	135	210	210	17	16	13	108	590	430	105	45	17	144	50
Pb 2505	212	357	377	264	85	38	80	165	452	50	24	135	210	210	17	16	13	108	590	430	105	45	17	144	50
Pb 24 --	191	315	332	233	70	50	110	146	395	38	26	123	170	170	16	10	8,5	97	506	379	95	38	15	150	53
Pb 23 --	156	284	290	204	60	35	80	133	361	36	21	106	147	147	16	10	4	80	506	379	95	38	15	150	53
Pb 22 --	139	252	260	177	55	32	80	118	320	36	25	99	131	131	16	10	9	68	506	379	95	38	15	150	53
Pb 21 --	130	214	227	157	45	28	60	100	269	36	17	91	120	120	16	10	3	64	506	379	95	38	15	150	53
Pb 20 --	112	198	210	140	38	24	60	90	245	30	12	84	109	109	16	10	4	52	506	379	95	38	15	150	53



Standard bores				Taper bushes for Pb							
D <sup>H7</sup>	F	GB	GA	20	21	22	23	24	25	26	27
20	6	16,5	22,5	∅							
25	8	21	28	∅	∅						
30	8	26	33	∅	∅	∅					
35	10	30	38	∅∅	∅	∅	∅				
40	12	35	43	∅∅	∅	∅	∅				
45	14	39,5	48,5		∅∅	∅	∅	∅			
50	14	44,5	53,5		∅∅	∅∅	∅	∅			
55	16	49	59			∅∅	∅∅	∅			
60	18	53	64				∅∅	∅	∅		
65	18	58	69					∅	∅		
70	20	62,5	74,5					∅∅	∅	∅	
75	20	67,5	79,5					∅∅	∅	∅	
80	22	71	85						∅∅	∅	
85	22	76	90						∅∅	∅	
90	25	81	95							∅	
95	25	86	100							∅∅	
100	28	90	106								∅
110	28	100	116								∅
120	32	109	127								∅
Minimum length of client shaft				80	82	105	116	134	153	194	260

∅ : Client key with small bores, dimensions GA shown  
∅∅ : Key supplied, dimensions GA not shown  
For tapered bush adaptation, please consult maintenance manual.

# POULIBLOC 2000

## Examples of applications



► *Screw conveyor drive*



► *Belt conveyor drive*

## Other product available in Poulibloc range

### **POULIBLOC 3000**

Single reduction gearbox

Reduction ratio 1/5 and 1/8

Cylindrical bore.

Economical series.

Available in 3 sizes up to 11 kW,  
with oil or grease lubrication.



**LS** LEROY<sup>®</sup>  
SOMER



**MOTEURS LEROY-SOMER 16015 ANGOULÊME CEDEX - FRANCE**

338 567 258 RCS ANGOULÊME  
S.A. au capital de 62 779 000 €