LEROY SOMER

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3780 en - 09.2003 / a

POULIBLOC 2000

Shaft mount speed reducer

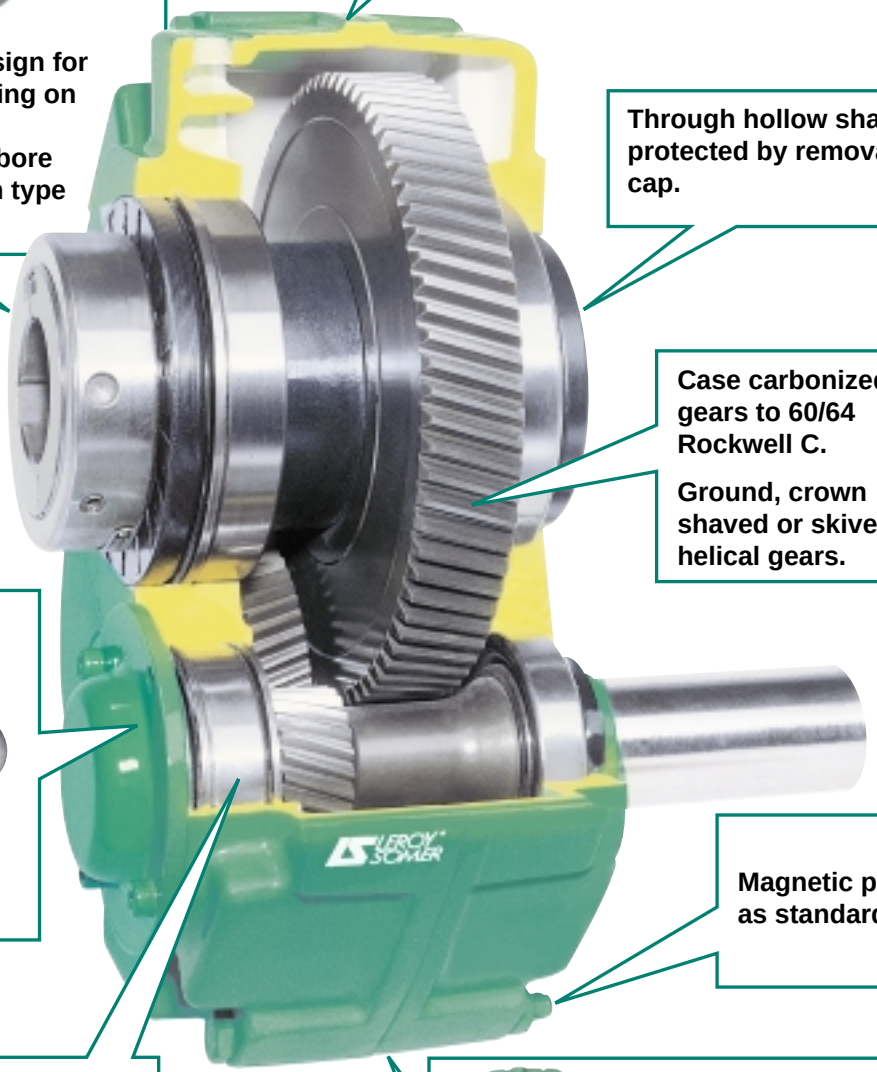
POULIBLOC 2000

with exclusive taper bushing feature

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.

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



Through hollow shaft protected by removable cap.

Case carbonized gears to 60/64 Rockwell C.

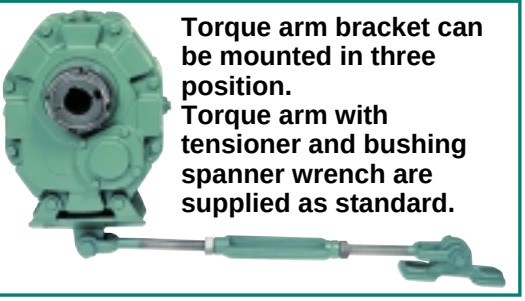
Ground, crown shaved or skived helical gears.

Easily installed backs-top.

Magnetic plug as standard.

Oversized taper roller and ball bearings.

Standard double lip seals on ground and polished shafts.



Torque arm bracket can be mounted in three position.
Torque arm with tensioner and bushing spanner wrench are supplied as standard.

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^{-1}

LS motors, power kW

Output speed min^{-1}	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
2 stages, reductions : 12, 15, 20 and 25																					
10				2125																	
11.2																					
12.5																2720					
14		2025					2225		2325		2425		2525		2625						
16						2125															
18																					
20												2420									
22.5									2220												
25																					
28			2020					2120			2320		2420		2520		2620		2720		
31.5										2220											
35.5																					
40																					
45																					
50																					
56				2015						2115	2215		2315		2415		2515		2615	♦	2712
63																				♦	
71																				♦	♦
80																2412	♦	♦		♦	♦
90												2212				♦	♦	♦		♦	♦ 2612
100																♦	♦	♦	♦	♦	♦
112					2012						2112		2212	2312		♦	♦	♦ 2512	♦	♦	♦
125														2212		♦	♦	♦ 2412	♦	♦	♦
140																♦	♦	♦	♦	♦	♦
1 stage, reduction : 5																					
50										2105											
56											2105					2405				2605	♦
63																					♦
71													2205						2505	♦	♦
80																2305	♦			♦	♦
90												2105					♦	2405		♦	♦
100																	♦		♦	♦	♦
112																	♦	♦	♦	♦	♦
125						2005										♦	♦	♦	♦	♦	♦
140																♦	♦	♦	♦	♦	♦
160																♦	♦	♦	♦	♦	♦
180														♦	♦	♦	♦	♦	♦	♦	♦
200														♦	♦	♦	♦	♦	♦	♦	♦
225														♦	♦ 2105	♦ 2205	♦	♦ 2305	♦ 2405	♦	♦ 2505
250														♦	♦	♦	♦	♦	♦	♦	♦
280														♦	♦	♦	♦	♦	♦	♦	♦
315														♦	♦	♦ 2105	♦	♦	♦	♦	♦
355														♦	♦	♦	♦	♦	♦	♦	♦

♦ **A specially designed ventilation system is required for continuous duty (or use a larger size).**

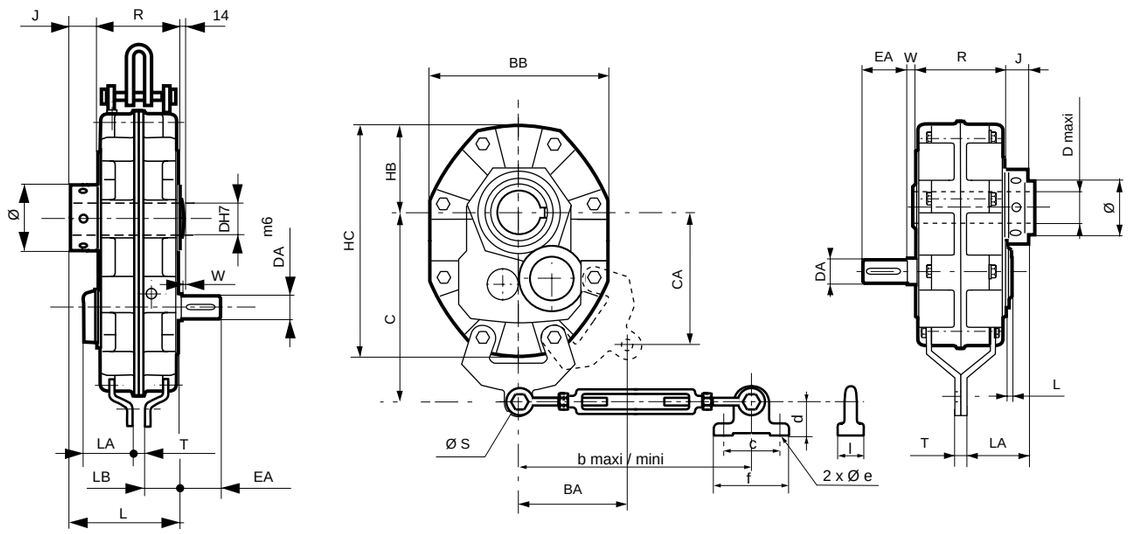
The ratio of pulley diameters is from 1/1 to 1/3, the Poulibloc reduction is selected according to the pulley ratio.

Selection :

Required power :	4 kW
Required speed :	60 min^{-1}
Duty factor necessary for the application :	K = 1
Diameter of driven shaft :	45
Mounting :	taper bush

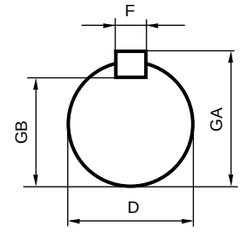
Designation : Pb 2112 B Ø 45 (motor : 4P LS 112, 4 kW, pulley ratio 1/2)
or Pb 2120 Ø 45 (motor : 4P LS 112, 4 kW, pulley ratio 1/1,2)

Dimensions



Pb 2712 - 2720

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 - -	245	410	439	306	100	65	130	191	522	61	23	157	238	238	17	20	8	135	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	378	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	378	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^{H7}	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

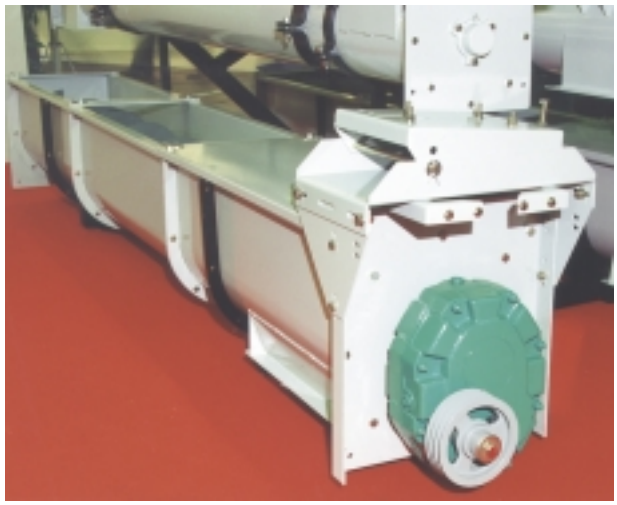
For tapered bush adaptation, please consult maintenance manual.

OTHER PRODUCT AVAILABLE IN POULIBLOC RANGE

POULIBLOC 3000
Single reduction gearbox - Reduction ratio 1/2 to 1/8
Cylindrical bore. Economical series.
Available in 3 sizes up to 11 kW, with oil or grease lubrication.

▼ Belt conveyor drive

▼ Screw conveyor drive



POULIBLOC range is available from the shelf