



HYDRAULIC COMPONENTS
HYDROSTATIC TRANSMISSIONS
GEARBOXES - ACCESSORIES

Certified Company ISO 9001 - 14001



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Speed-up and Splitter Gearboxes



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General Information

Speed-up and Splitter Gearboxes

They are used for installing hydraulic pumps on the farm tractor power take-off.

Max. output speed of the power take-off is 540 n/min. which can be modified to the proper running speed of the hydraulic pump.

Different input speed can also be suitable, provided that the output speed is not higher than 3000 n/min.

GEARBOX:

Made in shell-cast aluminium or cast iron with high mechanical resistance.

GEARS:

In compliance with ISO - DIN 3990-88 standard.

Made in treated steel UNI 18 PCR Mo 3 with properly shaved teeth.

Stub teeth guarantee high resistance and low noise.

SHAFT:

Made in treated steel UNI 16 Cr Ni 4 and key coupled with gears.

They are coupled with gears via splined parts and are thus more suitable to transmit the torque stated in the catalogue.

TORQUE:

The torque mentioned in the technical charts refer to continuous duty.

For intermittent duty the torque may be higher by 20%.

LUBRICATION:

We recommend use oil SAE 90 to ensure proper running and long life of the unit.

Check the oil level via the level gauge every 1500 hours.

Carry out first oil change after 60-80 working hours.

WORKING TEMPERATURE:

The working temperature should not exceed 120°C under continuous duty.

HYDRAULIC PUMP INSTALLATION:

The installation of the hydraulic pumps on the gearboxes require a coupling sleeve and adapter flange according to the specific requirements.

When ordering please specify pump flange and shaft type.

Please contact our Tech. Dpt. for special components with operating features different from those stated in this catalogue.

General Information

Speed-up and Splitter Gearboxes

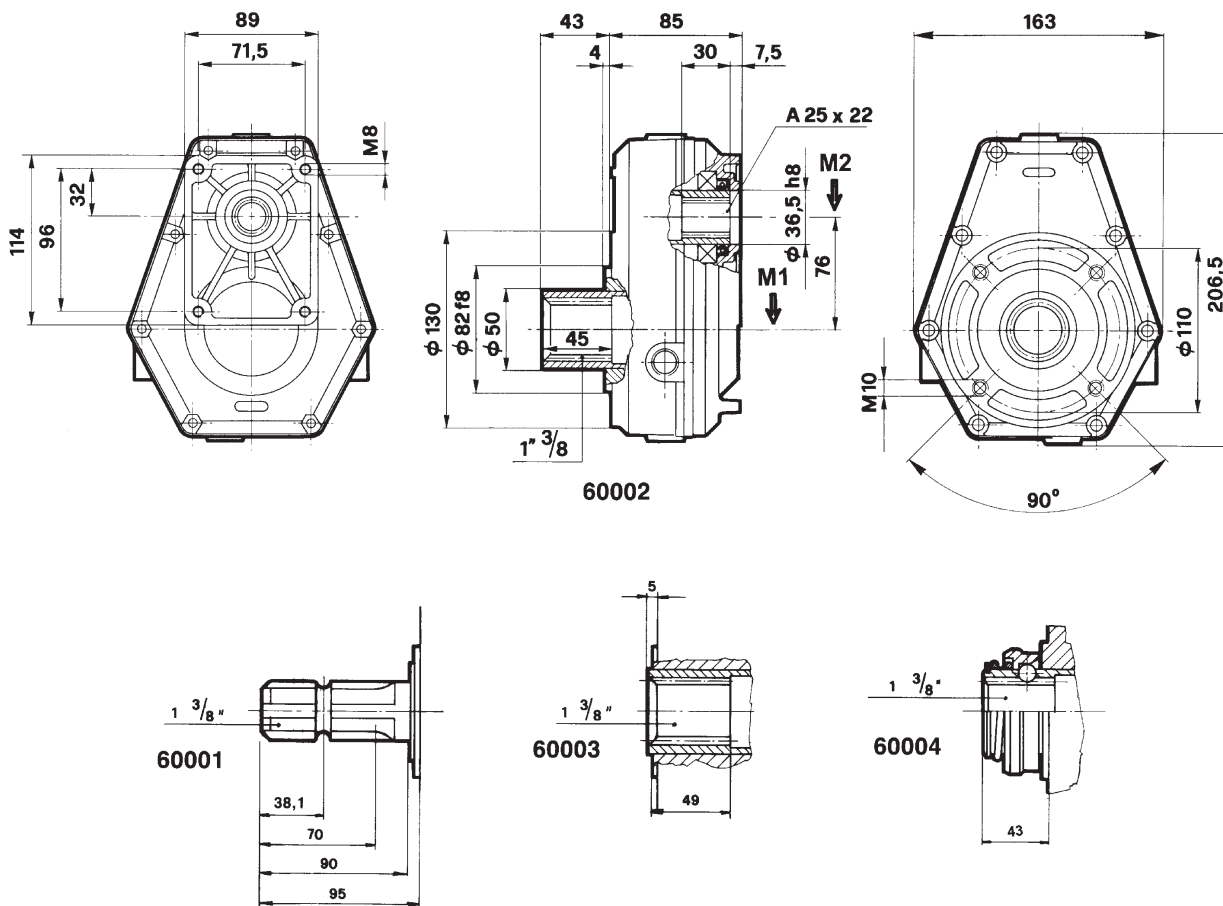
Product Overview

Gearbox Series		Power kW	Pump Group	Housing
Speed-Up	60000	10	Gr. 2	Aluminium
	70000 Standard	20	Gr. 3	Aluminium
	70000 Through Shaft	20	Gr. 3	Aluminium
	71000	20	Gr. 3	Aluminium
	80000	36	Gr. 3,5	Aluminium
	70012	37	Gr. 3	Cast Iron
	72000 Standard	37	ISO PTO	Cast Iron
	72000 Trough Shaft	37	ISO PTO	Cast Iron
	92000 (MTL 3,5)	40	Gr. 3,5	Aluminium
	97601	68	SAE A - B	Cast Iron
	97701	68	Gr. 2 - 3	Cast Iron
	93000	70	Gr. 4	Cast Iron
Splitter	85000	36	Gr. 2 - 3	Aluminium
	90000	45	Gr. 3 - 3,5	Aluminium
	91000	74	Gr. 4	Aluminium

Speed-up Gearboxes Series 60000

10 kW - Aluminium - Outlet pump flange Gr. 2

INSTALLATION DRAWING



Housing oil capacity: lt. 0,220

INPUT TORQUE M 1 daNm	OUTPUT TORQUE M 2 daNm	INPUT SPEED N 1 n/min.	OUTPUT SPEED N 2 n/min.	RATIO N 2 / N 1	POWER kW	MASS kg
17,8	11,9	540	810	1,5	10	5,5
15,2	7,6	540	1080	2	10	5,5
16,5	6,6	540	1350	2,5	10	5,5
18	5,5	540	1680	3	10	5,5
18,6	5,8	540	1836	3,5	10	5,5
15,9	4,2	540	2052	3,8	10	5,5

Speed-up Gearboxes Series 60000

10 kW - Aluminium - Outlet pump flange Gr. 2

ORDER CODE

6000	1	-	1	-		-	
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Speed-Up Gearbox Series 60000
Outlet pump flange Gr. 2

Flanges: see page

Special versions

Gear Ratio N2 / N1

Code - Ratio	Shaft	1	2	3	4
1 - 1,5		x	x	x	x
2 - 2		x	x	x	x
3 - 2,5		x	x	x	x
4 - 3		x	x	x	x
5 - 3,5		x	x	x	x
6 - 3,8		x	x	x	x

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Inlet shaft

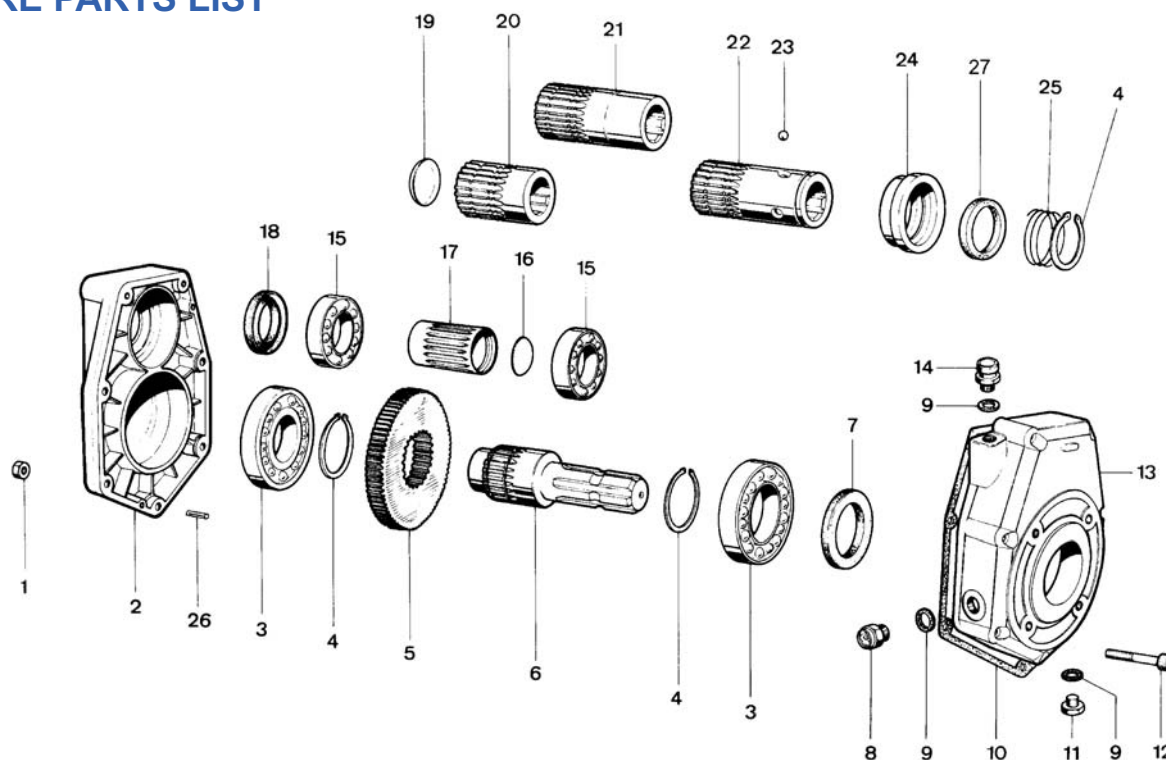
1 - Male shaft ASAE 1-3/8"

2 - Long Female shaft ASAE 1-3/8"

3 - Short Female shaft ASAE 1-3/8"

4 - Quick Coupling Female shaft ASAE 1-3/8"

SPARE PARTS LIST



REF.	DESCRIPTION	Q.ty
1	Nut M6	8
2	Cover	1
3	Bearing type 6010	2
4	Snap ring dia. 50	3
5	Ring gear	1
6	Male P.T.O. shaft 1" 3/8	1
7	Sealing ring Ø 50x65x8	1
8	Oil level plug 3/8"	1
9	Gasket	3
10	Gasket	1

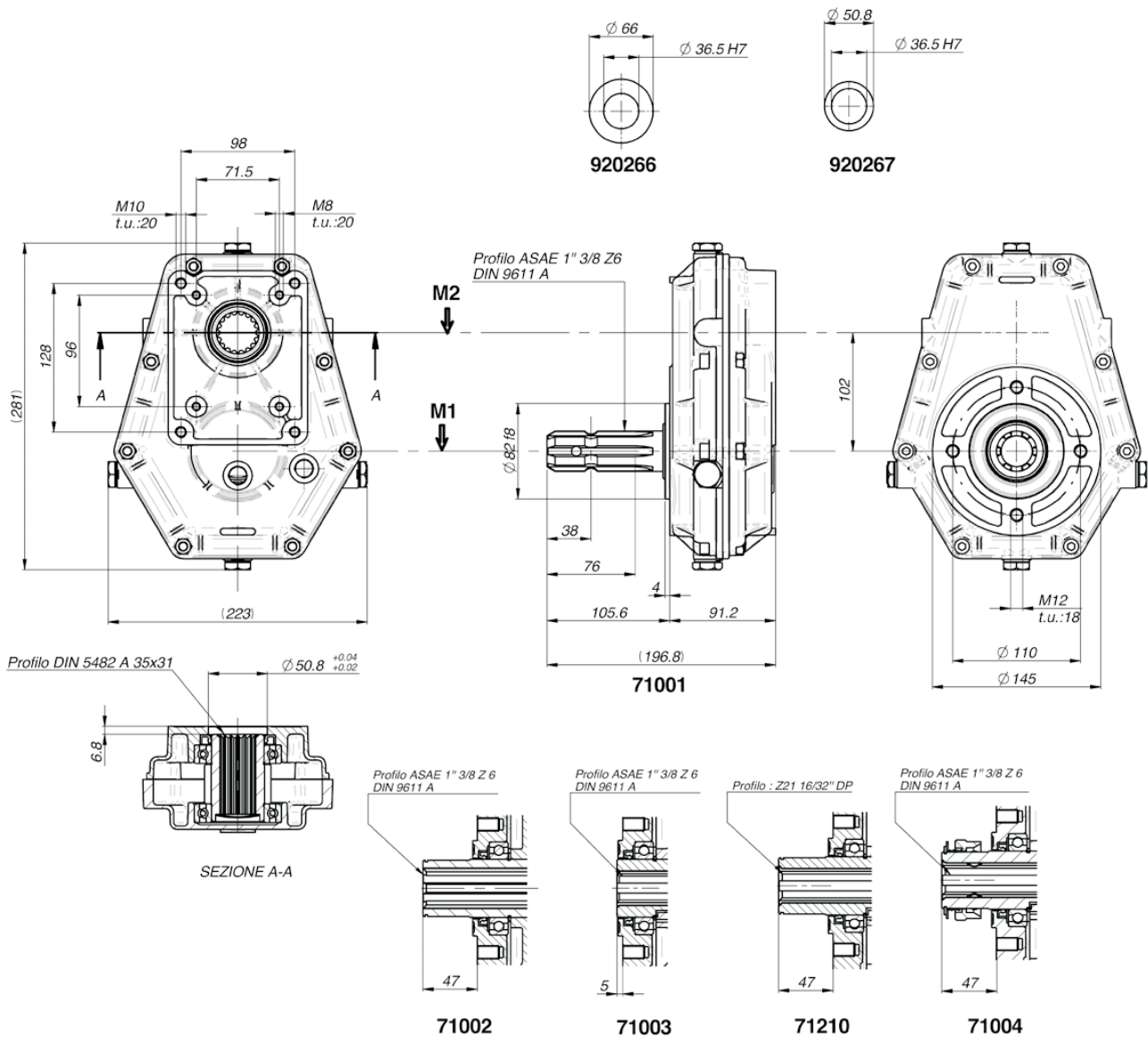
REF.	DESCRIPTION	Q.ty
11	Oil drain plug 3/8"	1
12	Socket capscrew M6x50	8
13	Housing	1
14	Oil breather plug 3/8"	1
15	Bearing type 6007	2
16	Cap DIN 470 Ø 27	1
17	Pinion Gear	1
18	Sealing ring Ø 35x52x7	1
19	Cap DIN 470 Ø 40	1

REF.	DESCRIPTION	Q.ty
20	Female P.T.O. shaft 1" 3/8 short	1
21	Female P.T.O. shaft 1" 3/8 long	1
22	Female P.T.O. shaft 1" 3/8 quick coupling	1
23	Ball	3
24	Spring ring	1
25	Spring	1
26	Peg 5x16	2
27	Ring	1

Speed-up Gearboxes Series 71000

20 kW - Aluminium - Outlet pump flange Gr. 3

INSTALLATION DRAWING



Housing oil capacity : lt 0,350

INPUT TORQUE M1 daNm	OUTPUT TORQUE M2 daNm	INPUT SPEED N1 n/min.	OUTPUT SPEED N2 n/min.	RATIO N2 / N1	POWER kW	MASS kg
31	31	540	540	1	20	8,4
38	26	540	810	1,5	20	8,4
43	21	540	1080	2	20	8,4
46	18	540	1408	2,5	20	8,4
49	16	540	1620	3	20	8,4
46	13	540	1836	3,5	20	8,4
43,7	11,5	540	2057	3,8	20	8,4

Speed-up Gearboxes Series 71000

20 kW - Aluminium - Outlet pump flange Gr. 3

ORDER CODE

7100	1	-	1	-		-	96100
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Speed-Up Gearbox Series 71000
Outlet pump flange Gr. 3

Flanges: see page

Special versions

Inlet shaft:

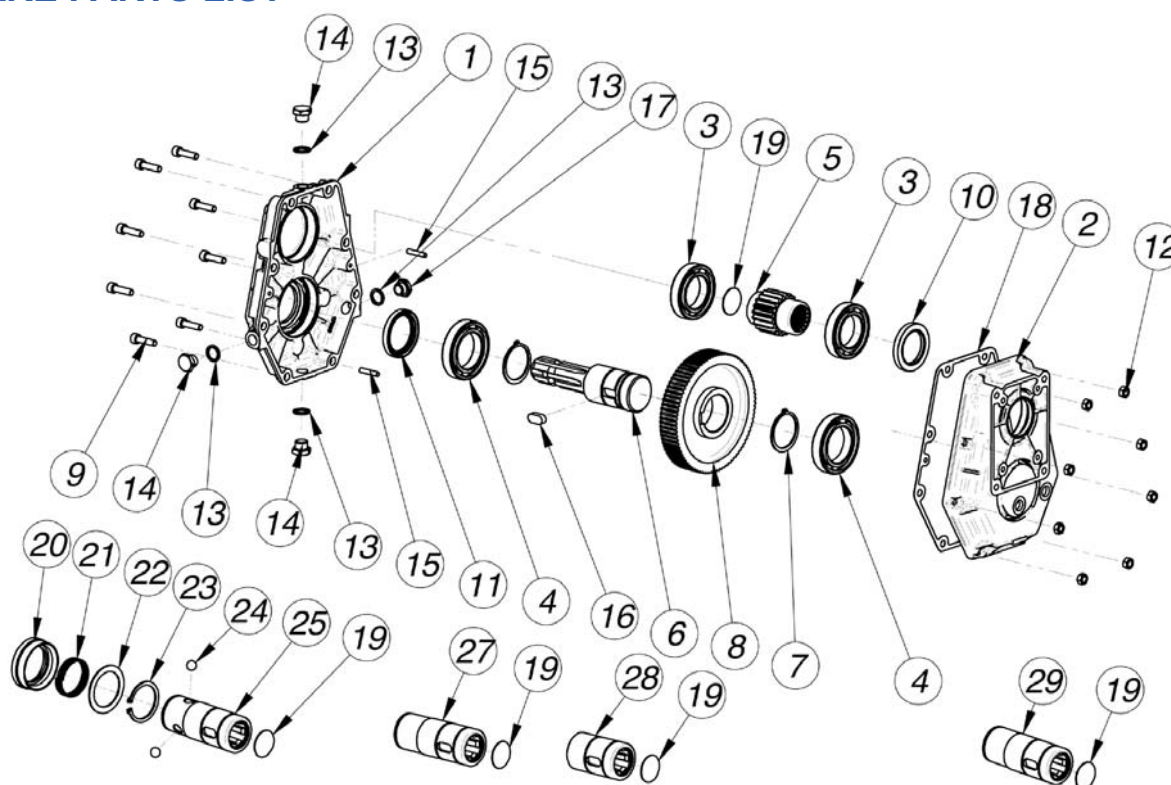
- 1 - Male shaft ASAE 1-3/8"
- 2 - Long Female shaft ASAE 1-3/8"
- 3 - Short Female shaft ASAE 1-3/8"
- 4 - Quick Coupling Female shaft ASAE 1-3/8"

Gear Ratio N2 / N1

Code - Ratio	Shaft	1	2	3	4
0 - 1		x	x		x
1 - 1,5		x	x	x	x
2 - 2,2		x	x	x	x
3 - 2,5		x	x	x	x
4 - 3		x	x	x	x
5 - 3,5		x	x	x	x
6 - 3,8		x	x	x	x

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SPARE PARTS LIST



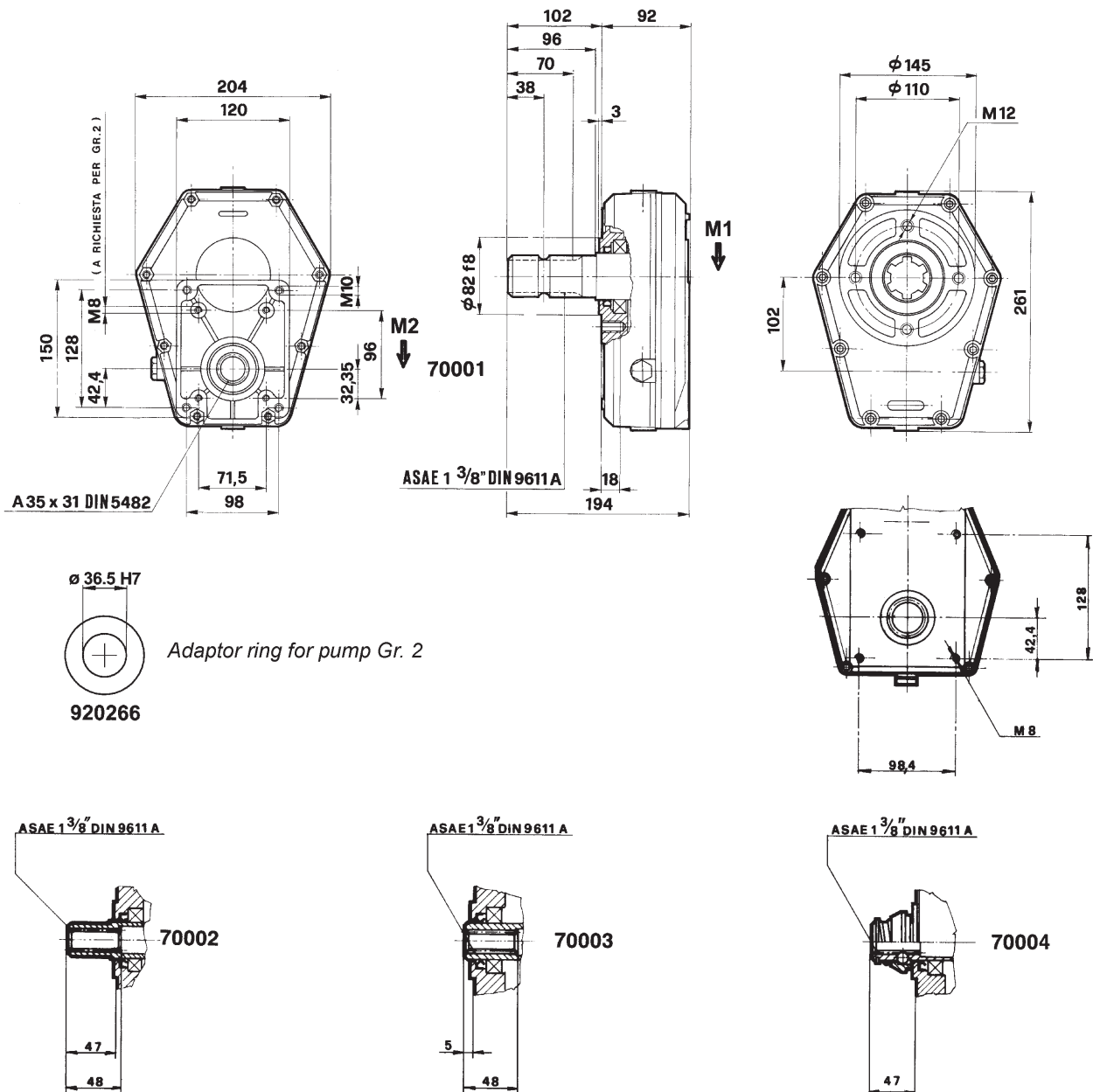
Ref.	DESCRIPTION	Q.ty
1	Housing	1
2	Cover	1
3	Bearing 6009	2
4	Bearing 6010	2
5	Pinion gear	1
6	Female P.T.O. shaft 1"3/8 Z6	1
7	Snap ring d.50	2
8	Ring gear	1
9	Socket capscREW M8x30	8
10	Sealing ring 45x65x8	1

Ref.	DESCRIPTION	Q.ty
11	Sealing ring 50x65x8	1
12	Nut M8	8
13	Gasket	4
14	Oil drain plug 3/8"	3
15	Peg d.6	2
16	Key 12x25	1
17	Oil drain plug 3/8"	1
18	Gasket	1
19	Cap DIN 470 D.37	1
20	Spring ring	1

Ref.	DESCRIPTION	Q.ty
21	Spring	1
22	Ring	1
23	Snap ring UNI 7435 - 50	1
24	Ball d.13	1
25	Female P.T.O. shaft 1"3/8" Z6, Quick fitting	1
27	Female P.T.O. shaft 1"3/8" Z6 long	1
28	Female P.T.O. shaft 1"3/8" Z6 long	1
29	Female P.T.O. shaft Z21 16/32" DP long	1

Speed-up Gearboxes Series 70000 standard 20 kW - Aluminium - Outlet pump flange Gr. 3

INSTALLATION DRAWING



Housing oil capacity lt: 0,350

INPUT TORQUE M 1 daNm	OUTPUT TORQUE M 2 daNm	INPUT SPEED N 1 n/min.	OUTPUT SPEED N 2 n/min.	RATIO N 2 / N 1	POWER kW	MASS kg
31	31	540	540	1	20	8,1
38	26	540	810	1,5	20	8,1
43	21	540	1080	2	20	8,1
46	18	540	1408	2,5	20	8,1
49	16	540	1620	3	20	8,1
46	13	540	1836	3,5	20	8,1
43,7	11,5	540	2057	3,8	20	8,1

Speed-up Gearboxes Series 70000 standard 20 kW - Aluminium - Outlet pump flange Gr. 3

ORDER CODE

7000	1	-	1	-	
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Speed-Up Gearbox Series 70000
Outlet pump flange Gr. 3

Special versions

Inlet shaft

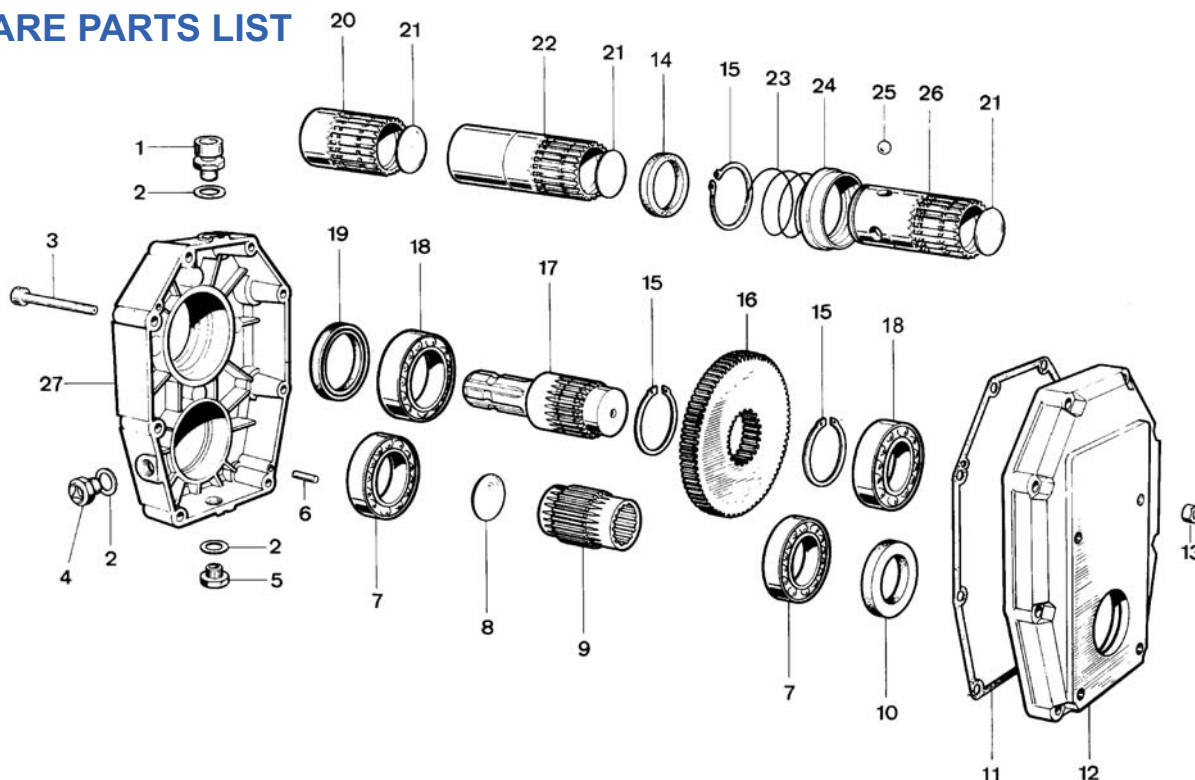
1 - Male shaft ASAE 1-3/8"
2 - Long Female shaft ASAE 1-3/8"
3 - Short Female shaft ASAE 1-3/8"
4 - Quick Coupling Female shaft ASAE 1-3/8"

Gear Ratio N2 / N1

Code - Ratio	Shaft	1	2	3	4
0 - 1		x	x		x
1 - 1,5		x	x	x	x
2 - 2		x	x	x	x
3 - 2,5		x	x	x	x
4 - 3		x	x	x	x
5 - 3,5		x	x	x	x
6 - 3,8		x	x	x	x

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SPARE PARTS LIST



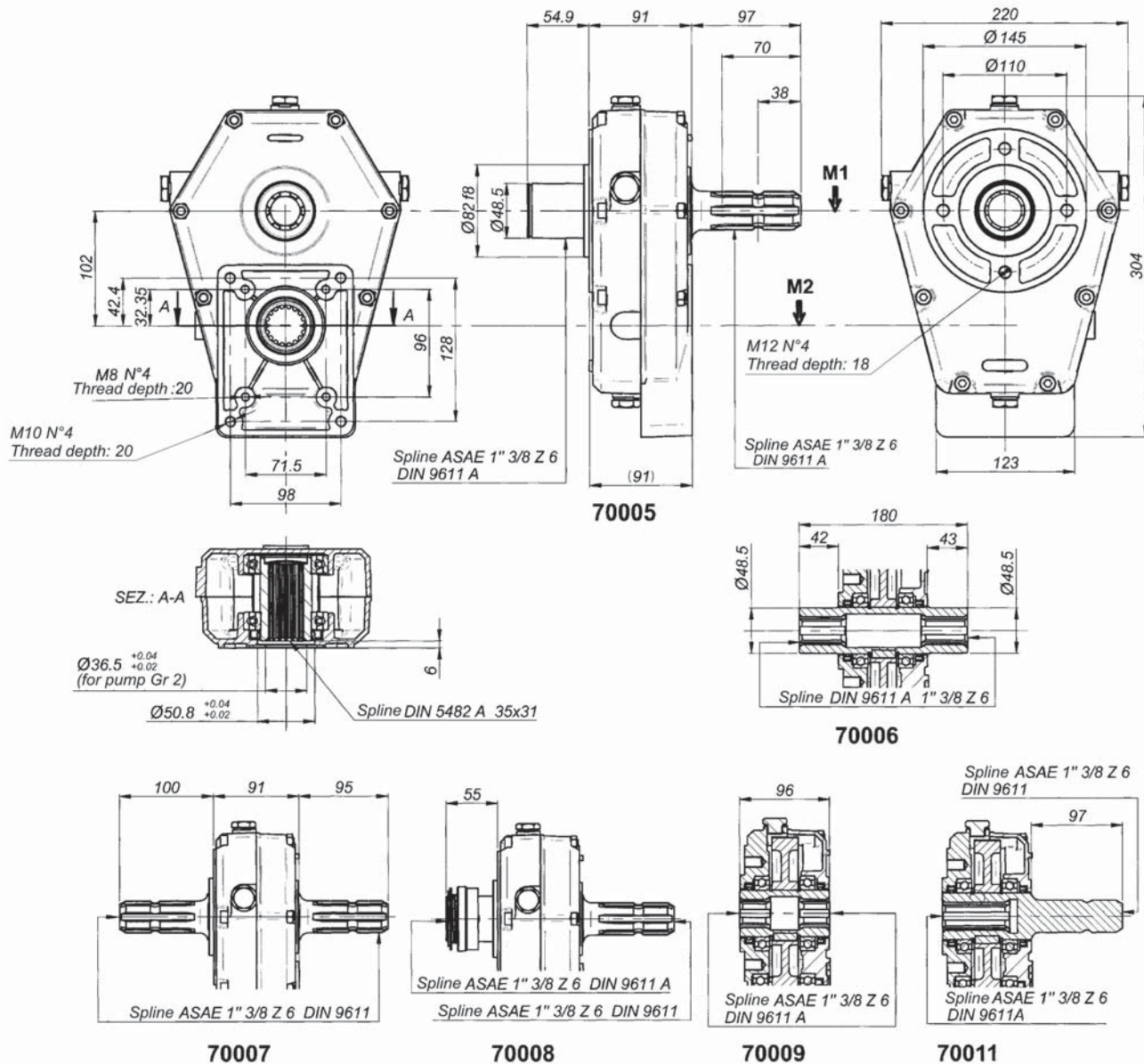
REF.	DESCRIPTION	Q.ty
1	Oil breather plug 3/8"	1
2	Gasket	2
3	Socket capscrew M8x70	8
4	Oil level plug 3/8"	1
5	Oil drain plug 3/8"	1
6	Peg	2
7	Bearing type 6009	2
8	Cap DIN 470 Ø 37	1
9	Pinion Gear	1

REF.	DESCRIPTION	Q.ty
10	Sealing ring Ø 45x65x8	1
11	Gasket	1
12	Cover	1
13	Nut M8	8
14	Ring	1
15	Snap ring dia. 50	3
16	Ring gear	1
17	Male P.T.O. shaft 1" 3/8	1
18	Bearing type 6010	2
19	Sealing ring Ø 50x65x8	1

REF.	DESCRIPTION	Q.ty
20	Female P.T.O. shaft 1" 3/8 short	1
21	Cap DIN 470 Ø 40	3
22	Female P.T.O. shaft 1" 3/8 long	1
23	Spring	1
24	Ring	1
25	Ball	3
26	Female P.T.O. quick coupling	1
27	Housing	1

Speed-up Gearboxes Series 70000 through shaft 20 kW - Aluminium - Outlet pump flange Gr. 3

INSTALLATION DRAWING



Housing oil capacity lt: 0,350

INPUT TORQUE M 1 daNm	OUTPUT TORQUE M 2 daNm	INPUT SPEED N 1 n/min.	OUTPUT SPEED N 2 n/min.	RATIO N 2 / N 1	POWER kW	MASS kg
31	31	540	540	1	20	9,5
38	26	540	810	1,5	20	9,5
43	21	540	1080	2	20	9,5
46	18	540	1408	2,5	20	9,5
49	16	540	1620	3	20	9,5
46	13	540	1836	3,5	20	9,5
43,7	11,5	540	2057	3,8	20	9,5

Speed-up Gearboxes Series 70000 through shaft 20 kW - Aluminium - Outlet pump flange Gr. 3

ORDER CODE

7000

5

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1

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Speed-Up Gearbox Series 70000
Through-shaft
Outlet pump flange Gr. 3

Through shaft

5 - Male-Long Female shaft ASAE 1-3/8"

6 - Long Female- Long Female shaft ASAE 1-3/8"

7 - Male-Male shaft ASAE 1-3/8"

8 - Male- Quick Coupling shaft ASAE 1-3/8"

9 - Short Female-Short Female shaft ASAE 1-3/8"

11- Male-Short Female shaft ASAE 1-3/8"

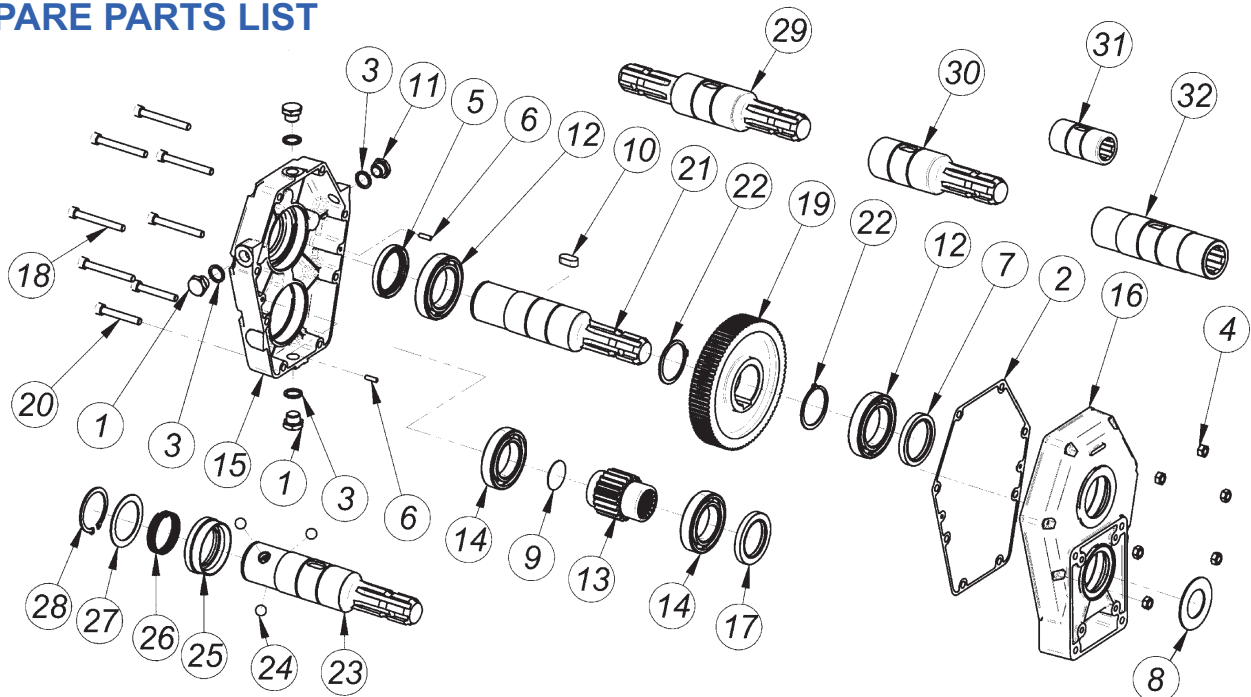
Special versions

Gear Ratio N2 / N1

Code - Ratio	Shaft	5	6	7	8	9	11
0 -						x	
1 - 1,5		x	x	x	x		
2 - 2		x	x	x	x		x
3 - 2,5		x	x	x	x		
4 - 3		x	x	x	x	x	x
5 - 3,5		x	x	x	x	x	x
6 - 3,8		x	x	x	x	x	x

blank - not available x - Available

SPARE PARTS LIST



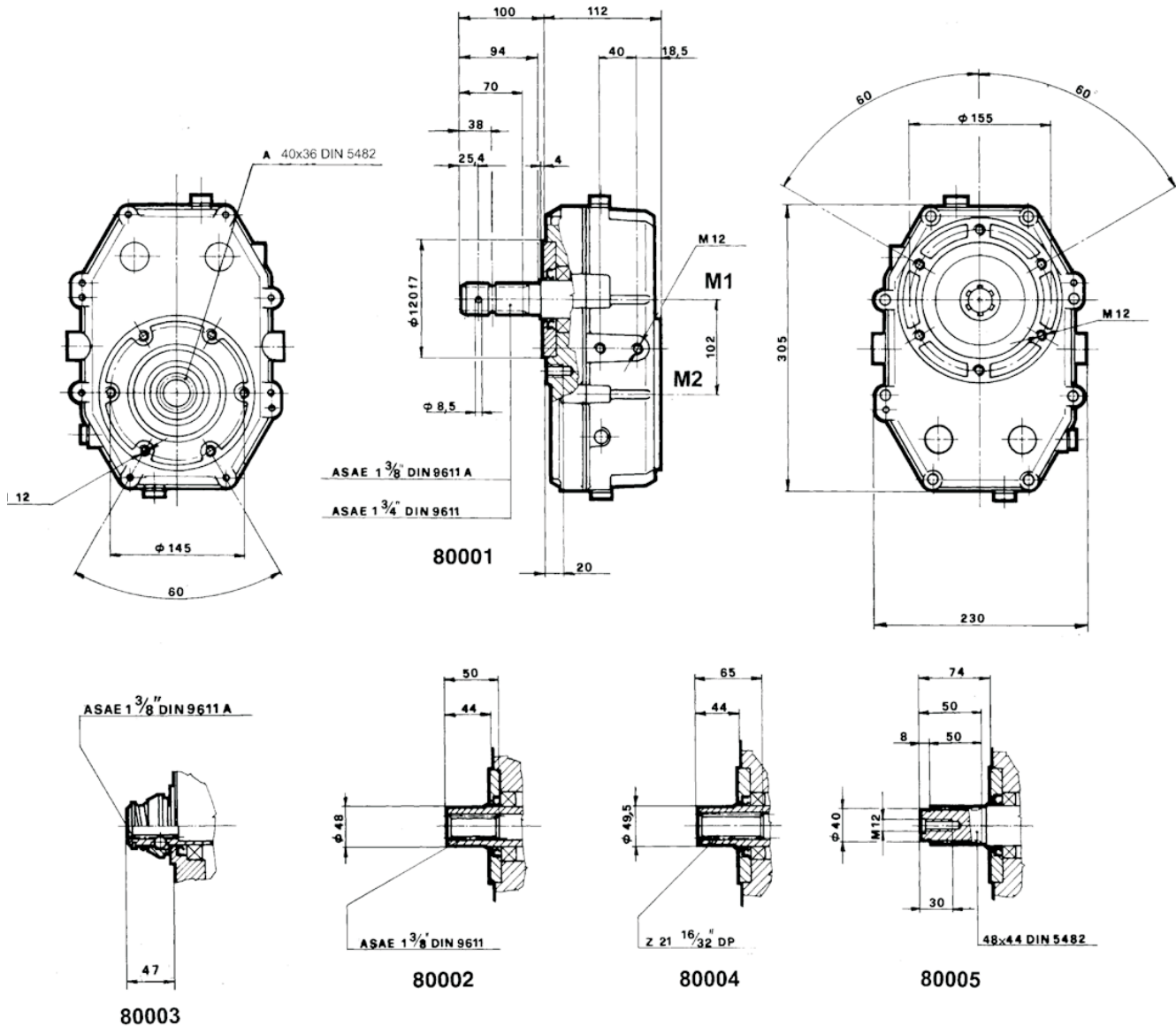
Ref.	DESCRIPTION	Q.ty
1	Oil drain plug 3/8"	3
2	Gasket	1
3	Gasket	4
4	Nut M8	6
5	Sealing ring 50x65x8	1
6	Peg UNI 8751 5x16	2
7	Sealing ring 50x65x8	1
8	Centering ring for pump group 2	1
9	Cap DIN 470 D.37	1
10	Key 12x25	1
11	Oil drain plug 3/8"	1
12	Bearing 6010	2
13	Pinion gear	1
14	Bearing 6009	2

Ref.	DESCRIPTION	Q.ty
15	Housing	1
16	Cover	1
17	Sealing ring 45x65x8	1
18	Socket capscREW M8x70	6
19	Ring gear	1
20	Socket capscREW M8x55	2
21	Female-Male P.T.O. shaft 1"3/8" Z6	1
22	Snap ring d.50	2
23	Female-Male P.T.O. - Quick coupling shaft 1" 3/8" Z6	1
24	Ball	3

Ref.	DESCRIPTION	Q.ty
25	Spring ring	1
26	Spring	1
27	Ring	1
28	Snap ring UNI 7435 - 50	1
29	Male-Male P.T.O. shaft 1"3/8" Z6	1
30	Female-Male P.T.O. shaft 1"3/8" Z6 short	1
31	Female P.T.O. shaft 1"3/8" Z6 short	1
32	Female P.T.O. shaft 1"3/8" Z6	1

Speed-up Gearboxes Series 80000 36 kW - Aluminium - Pump Group 3,5

INSTALLATION DRAWING



Housing Oil capacity: lt 1,00

INPUT TORQUE M 1 daNm	OUTPUT TORQUE M 2 daNm	INPUT SPEED N 1 n/min.	OUTPUT SPEED N 2 n/min.	RATIO N2 / N1	POWER kW	MASS kg
46,6	46,6	540	540	1	36	13,5
48	32	540	810	1,5	36	13,5
48,4	24,2	540	1080	2	36	13,5
46,8	18	540	1408	2,5	36	13,5
48,9	16,3	540	1620	3	36	13,5
45,9	13,5	540	1836	3,5	36	13,5
47,5	12	540	2052	3,8	36	13,5
47,2	11,8	540	2160	4	36	13,5
47	9,8	540	2592	4,8	36	13,5

Speed-up Gearboxes Series 80000 36 kW - Aluminium - Pump Group 3,5

ORDER CODE

8000

1

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1

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Speed-Up Gearbox Series 80000

Inlet shaft

 1 - Male shaft ASAE 1-3/8" (specify)
 1 - Male shaft ASAE 1-3/4" (specify)
 2 - Long Female shaft ASAE 1-3/8"
 3 - Quick Coupling Female shaft ASAE 1-3/8"
 4 - Long Female shaft z=21 16/32" DP

Flanges:
see page 40 - 41

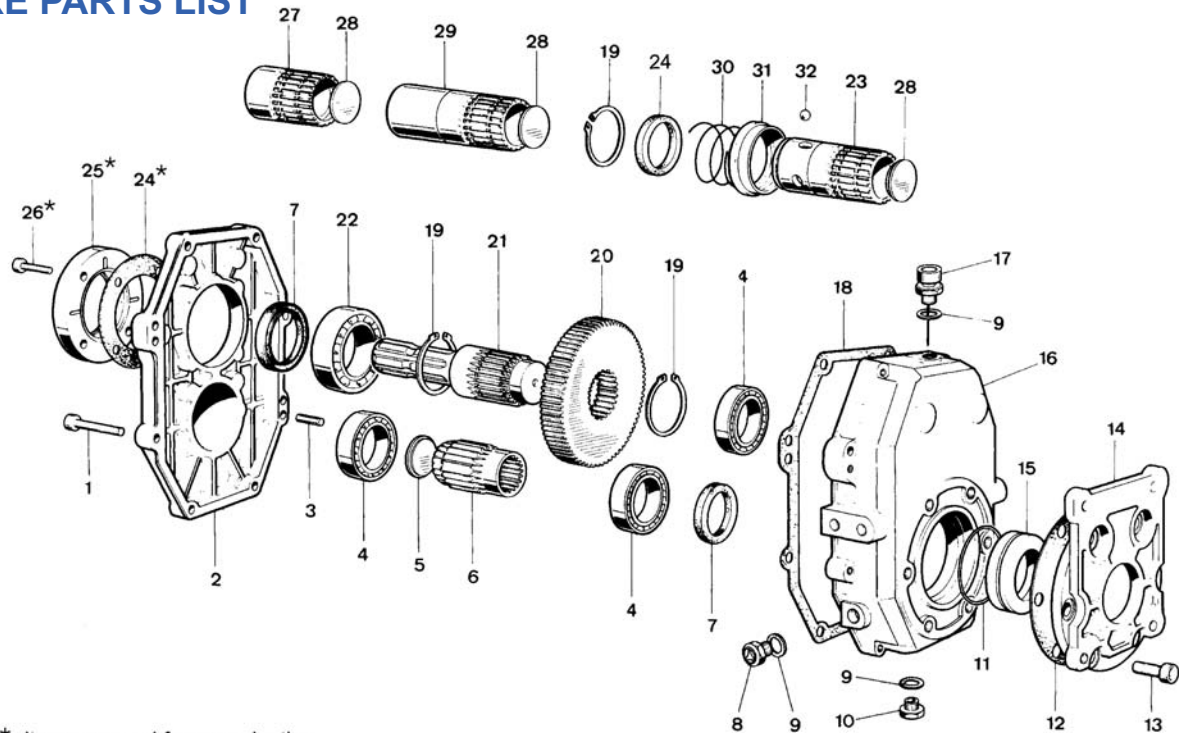
Special versions

Gear Ratio N2 / N1

Code - Ratio	Shaft	1	2	3	4	5
1 - 1		x	x	x		
2 - 1,5		x	x	x		
3 - 2		x	x	x		
4 - 2,5		x	x	x	x	
5 - 3		x	x	x		
6 - 3,5		x	x	x		
7 - 3,8		x	x	x		
8 - 4		x	x	x		
9 - 4,8		x	x	x		

blank - not available
x - Available

SPARE PARTS LIST



* item removed from production

REF.	DESCRIPTION	Q.ty
1	Socket capscREW M8x40	8
2	Cover	1
3	Peg 8x30	2
4	Bearing type 6010	3
5	Cap DIN 470	1
6	Pinion Gear	1
7	Sealing ring Ø 50x65x8	2
8	Plug	1
9	Gasket	3
10	Oil drain plug	1
11	O-Ring	1

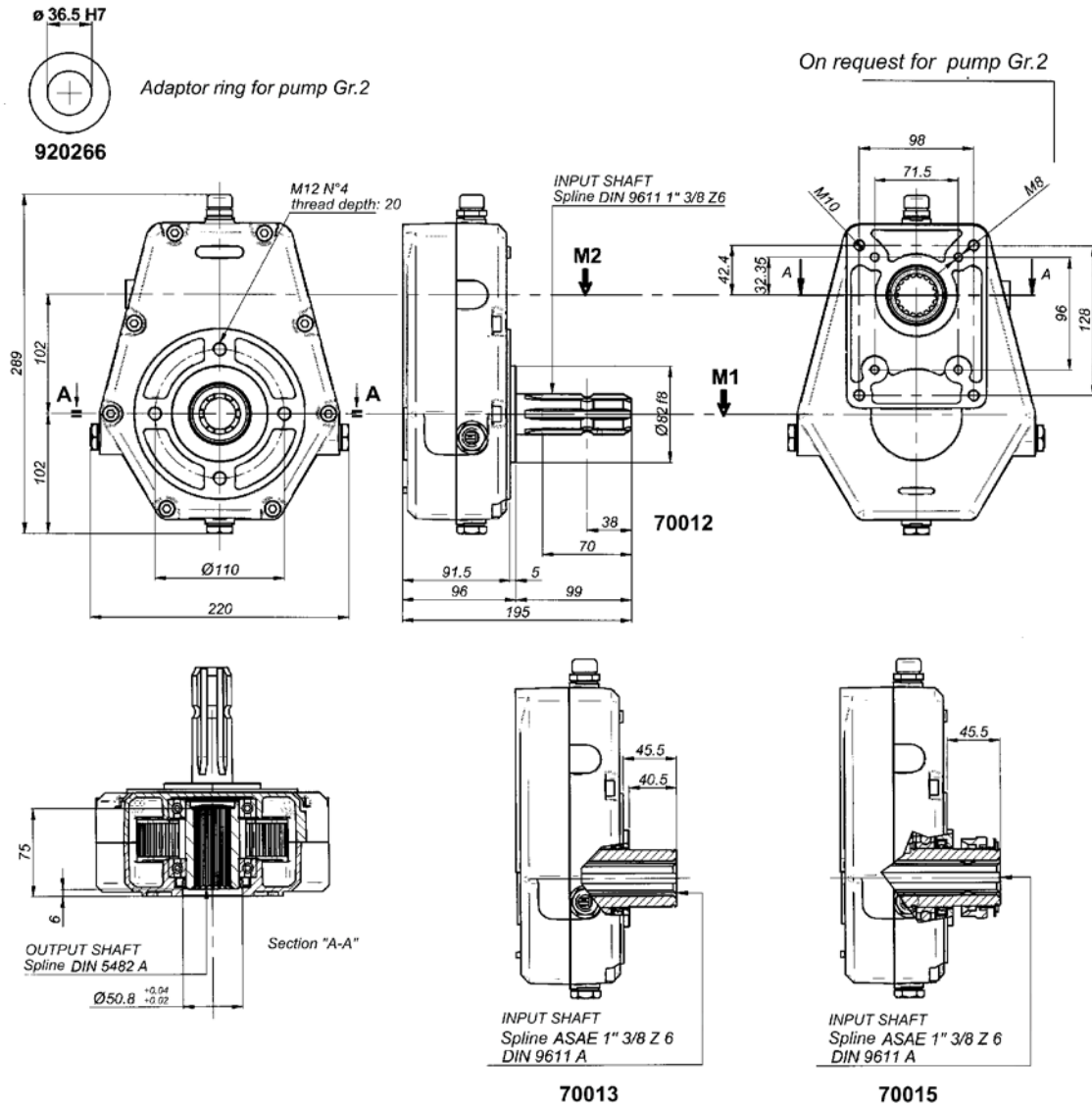
REF.	DESCRIPTION	Q.ty
12	Gasket	1
13	Socket capscREW M12x20	6
14	Flange	1
15	Corteco Ring	1
16	Housing	1
17	Oil dipstick with vent	1
18	Gasket	1
19	Snap ring	3
20	Ring gear	1
21	Male P.T.O. shaft 1" 3/8	1
22	Bearing type 6210	1

REF.	DESCRIPTION	Q.ty
23	Female P.T.O. shaft 1" 3/8	1
24 *	Gasket	1
25 *	Cap	1
26 *	Socket capscREW M6x20	4
27	Female P.T.O. shaft 1" 3/8 short	1
28	Cap	3
29	Female P.T.O. shaft 1" 3/8 long	1
30	Spring	1
31	Spring ring	1
32	Ball	3
33	Ring	1

Speed-up Gearboxes Series 70012

37 kW - Cast iron housing - Outlet pump flange Gr.3

INSTALLATION DRAWING



Housing oil capacity: lt 0,520

INPUT TORQUE M 1 daNm	OUTPUT TORQUE M 2 daNm	INPUT SPEED N 1 n/min.	OUTPUT SPEED N 2 n/min.	RATIO N 2 / N 1	POWER kW	MASS kg
66	66	540	540	1	37	14.5
66	44	540	810	1.5	37	14.5
66	33	540	1080	2	37	14.5
66	26.4	540	1408	2.5	37	14.5
66	22	540	1620	3	37	14.5
66	18	540	1836	3.5	35	14.5
66	16.6	540	2057	3.8	35	14.5

Speed-up Gearboxes Series 70012

37 kW - Cast iron housing - Outlet pump flange Gr.3

ORDER CODE

700	12	-	1	-		-	
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Speed-Up Gearbox Series 70012
Outlet pump flange Gr. 3
Cast Iron Housing

Flanges:
see page 39

Special versions

Inlet shaft

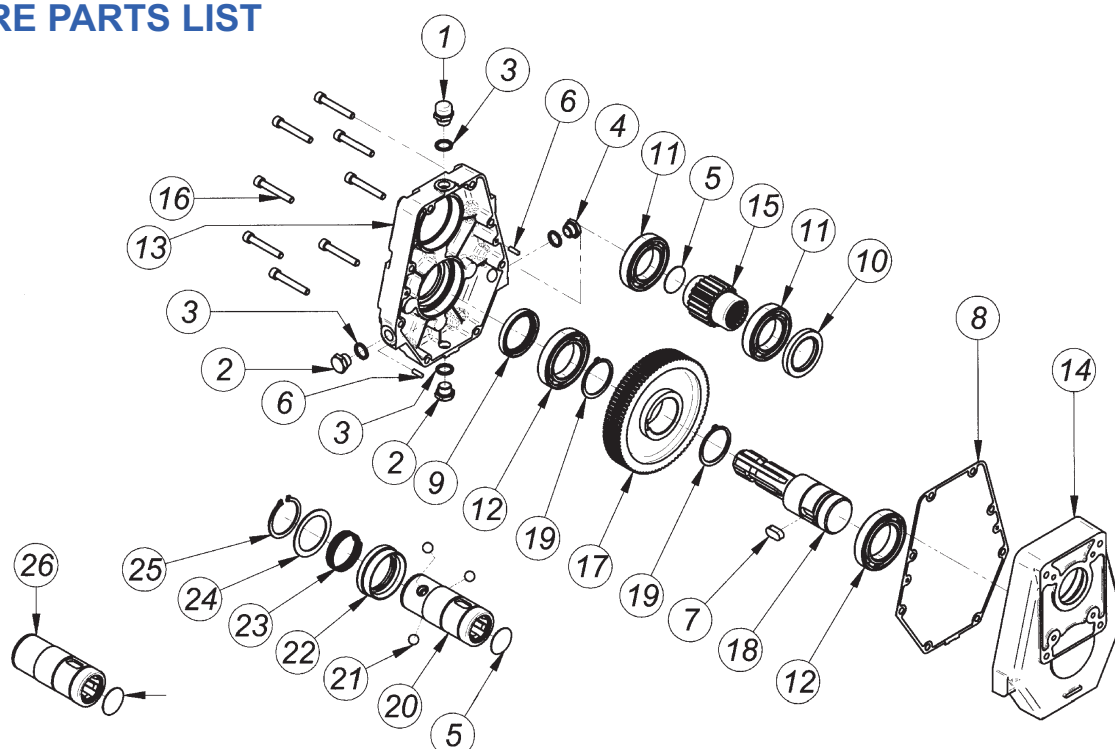
12 - Male shaft ASAE 1-3/8"
13 - Female shaft ASAE 1-3/8"
15 - Quick Coupling Female shaft ASAE 1-3/8"

Gear Ratio N2 / N1

Code - Ratio	Shaft	12	13	15
0 - 1		x		
1 - 1,5		x	x	x
2 - 2		x	x	x
3 - 2,5		x	x	x
4 - 3		x	x	x
5 - 3,5		x	x	x
6 - 3,8		x	x	x

blank - not available x - Available

SPARE PARTS LIST



REF.	DESCRIPTION	Q.ty
1	Oil breather plug 3/8"	1
2	Oil drain plug 3/8"	2
3	Gasket	4
4	Oil drain plug 3/8"	1
5	Cap DIN 470 D.37	1
6	Peg UNI 8735 5x20	2
7	Key 12x25	1
8	Gasket	1
9	Sealing ring 50x65x8	1
10	Sealing ring 45x65x8	1

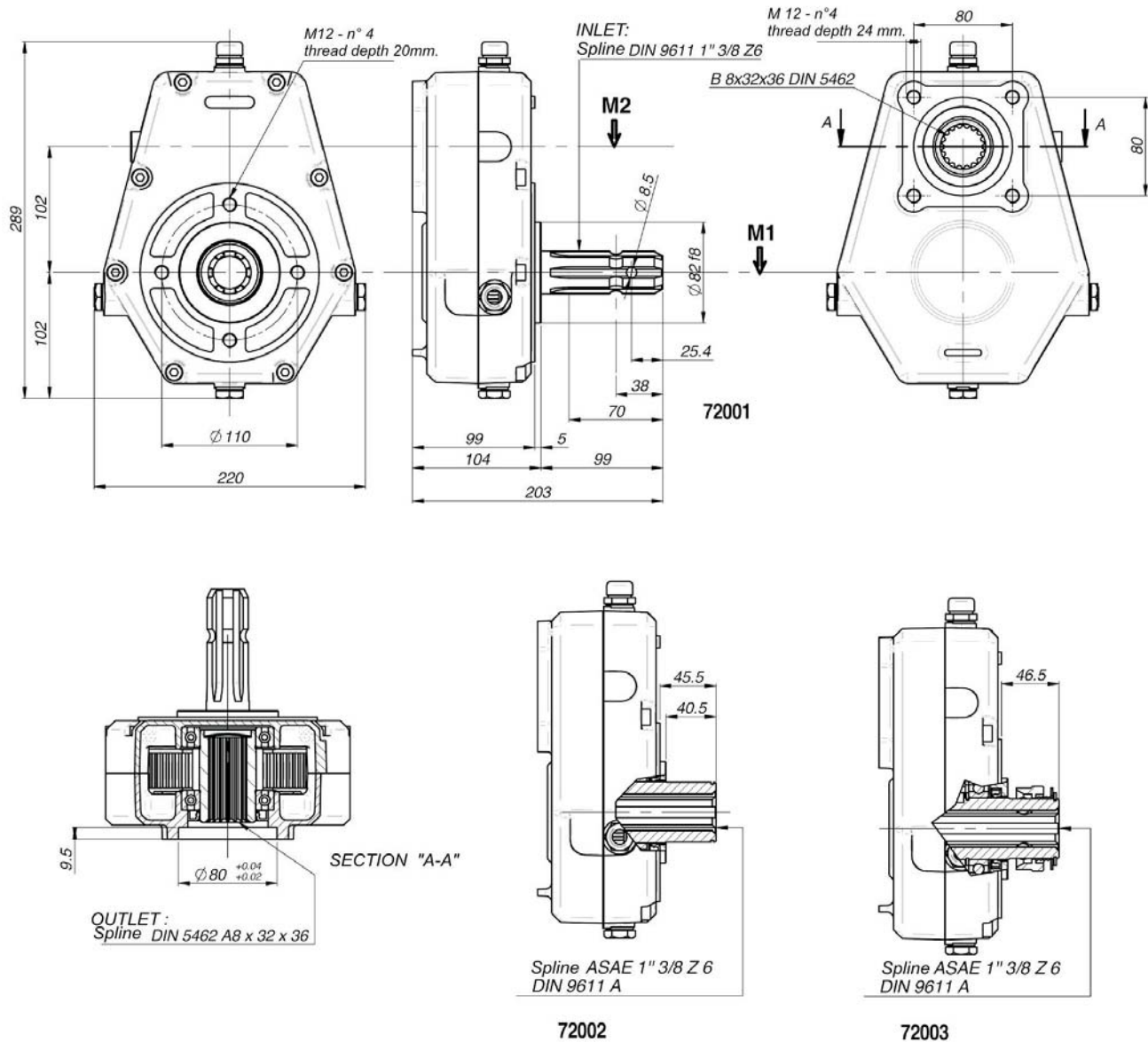
REF.	DESCRIPTION	Q.ty
11	Bearing 6009	2
12	Bearing 6010	2
13	Housing cast iron	1
14	Cover	1
15	Pinion gear	1
16	Socket capscREW M8x55	8
17	Ring gear	1
18	Male P.T.O. shaft 1"3/8 Z6	1

REF.	DESCRIPTION	Q.ty
19	Snap ring d.50	2
20	Female P.T.O. shaft 1"3/8" Z6, Quick coupling	1
21	Ball	3
22	Spring ring	1
23	Spring	1
24	Ring	1
25	Snap ring UNI 7435 - 50	1
26	Female P.T.O. shaft 1"3/8" Z6 long	1

Speed-up Gearboxes Series 72000 standard

37 kW - Cast iron housing - Outlet pump flange ISO 14 (DIN 5462)

INSTALLATION DRAWING



Housing oil capacity : lt 0,520

INPUT TORQUE M1 da Nm	OUTPUT TORQUE M2 da Nm	INPUT SPEED N1 n/min.	OUTPUT SPEED N2 n/min.	RATIO N2 / N1	POWER kW	MASS kg
66	66	540	540	1	37	14,5
66	44	540	810	1,5	37	14,5
66	33	540	1080	2	37	14,5
66	26,4	540	1408	2,5	37	14,5
66	22	540	1620	3	37	14,5
66	18	540	1836	3,5	37	14,5
66	16,6	540	2057	3,8	37	14,5

Speed-up Gearboxes Series 72000 standard

37 kW - Cast iron housing - Outlet pump flange ISO 14 (DIN 5462)

ORDER CODE

7200	1	-	1	-	
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Speed-Up Gearbox Series 72000
Outlet pump flange ISO 3019/2
Cast Iron Housing

Special versions

Inlet shaft:

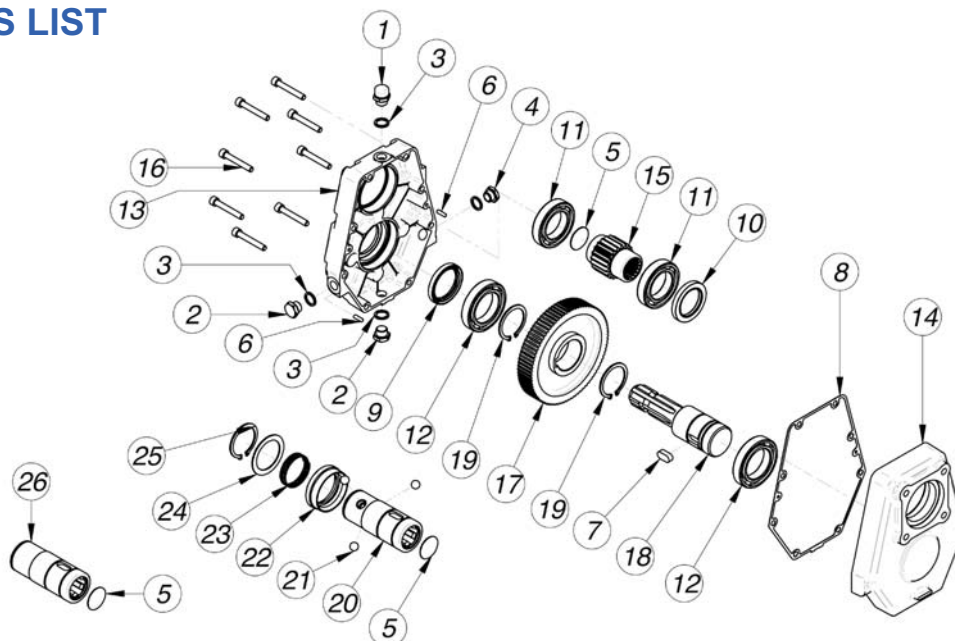
1 - Male shaft - DIN 9611 - 1-3/8" - z 6
2 - Long Female shaft ASAE 1-3/8"
3 - Quick Coupling Female shaft ASAE 1-3/8"

Gear Ratio N2 / N1

Code	Ratio	Shaft	1	2	3
0	1		x		
1	1,5		x	x	x
2	2,2		x	x	x
3	2,5		x	x	x
4	3		x	x	x
5	3,5		x	x	x
6	3,8		x	x	x

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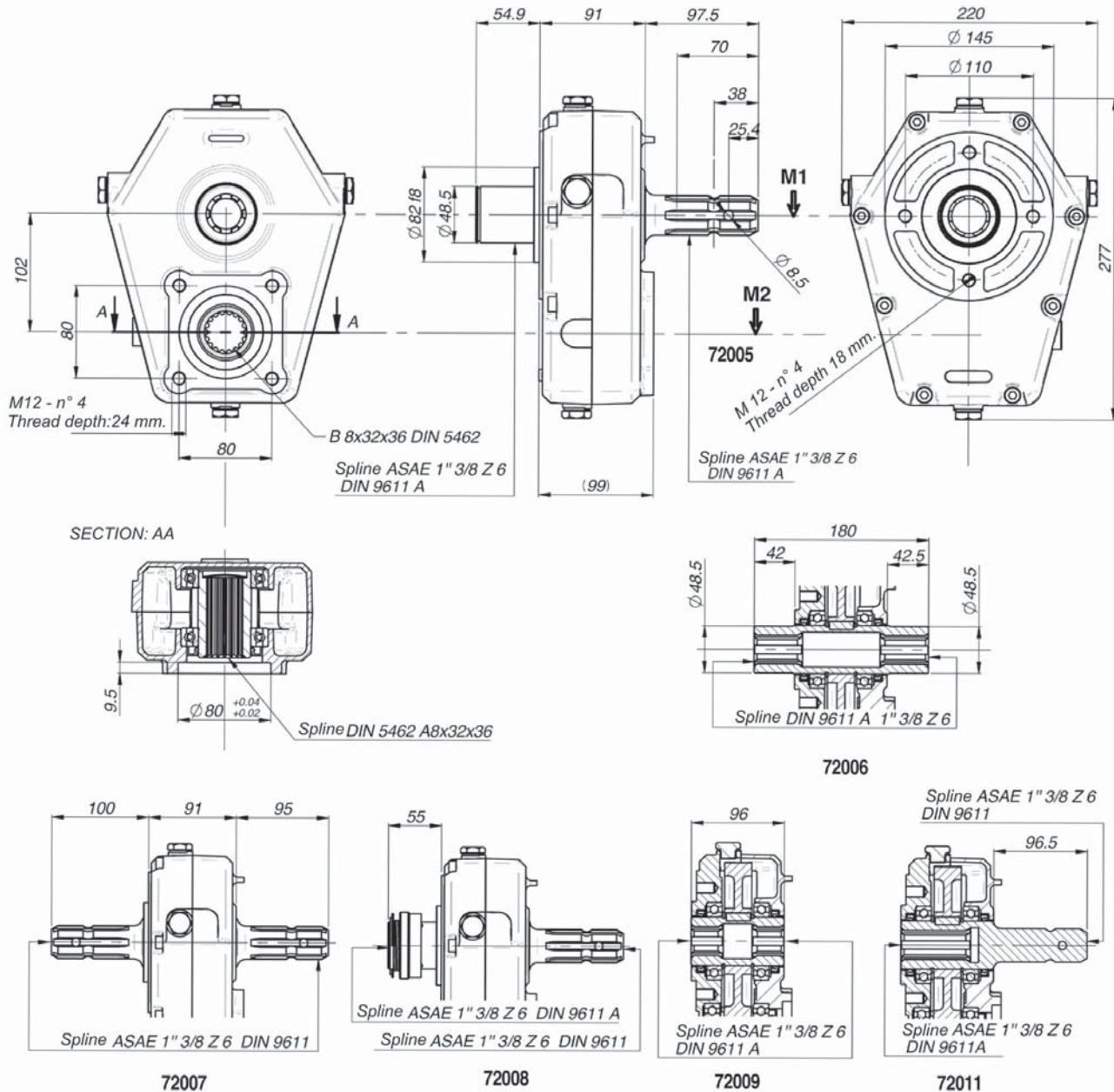
SPARE PARTS LIST



Ref.	DESCRIPTION	Q.ty
1	Oil breather plug 3/8"	1
2	Oil drain plug 3/8"	2
3	Gasket	4
4	Oil drain plug 3/8"	1
5	Cap DIN 470 D.37	1
6	Peg UNI 8735 5x20	2
7	Key 12x25	1
8	Gasket	1
9	Sealing ring 50x65x8	1
10	Sealing ring 45x65x8	1
11	Bearing 6009	2
12	Bearing 6010	2
13	Housing cast iron	1
14	Cover	1

Ref.	DESCRIPTION	Q.ty
15	Pinion gear	1
16	Socket cap screw M8x55	8
17	Ring gear	1
18	Female P.T.O. shaft 1"3/8" Z6	1
19	Snap ring UNI 7435 - 50	2
20	Female P.T.O. shaft 1"3/8" Z6, Quick fitting	1
21	Ball d.13	1
22	Spring ring	1
23	Spring	1
24	Ring	1
25	Snap ring UNI 7435 - 50	1
26	Female P.T.O. shaft 1"3/8" Z6 long	1

Speed-up Gearboxes Series 72000 through shaft 37 kW - Cast iron housing - Outlet pump flange ISO 14 (DIN 5462) INSTALLATION DRAWING



Housing oil capacity : lt 0,350

INPUT TORQUE M1 da Nm	OUTPUT TORQUE M2 da Nm	INPUT SPEED N1 n/min.	OUTPUT SPEED N2 n/min.	RATIO N2 / N1	POWER kW	MASS kg
31	31	540	540	1	37	15,5
38	26	540	810	1,5	37	15,5
43	21	540	1080	2	37	15,5
46	18	540	1408	2,5	37	15,5
49	16	540	1620	3	37	15,5
46	13	540	1836	3,5	37	15,5
43,7	11,5	540	2057	3,8	37	15,5

Speed-up Gearboxes Series 72000 through shaft 37 kW - Cast iron housing - Outlet pump flange ISO 14 (DIN 5462)

ORDER CODE

720

05

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1

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**Speed-Up Gearbox Series 72000
Through-shaft
Outlet pump flange ISO
Cast Iron Housing**

Special versions

Through shaft

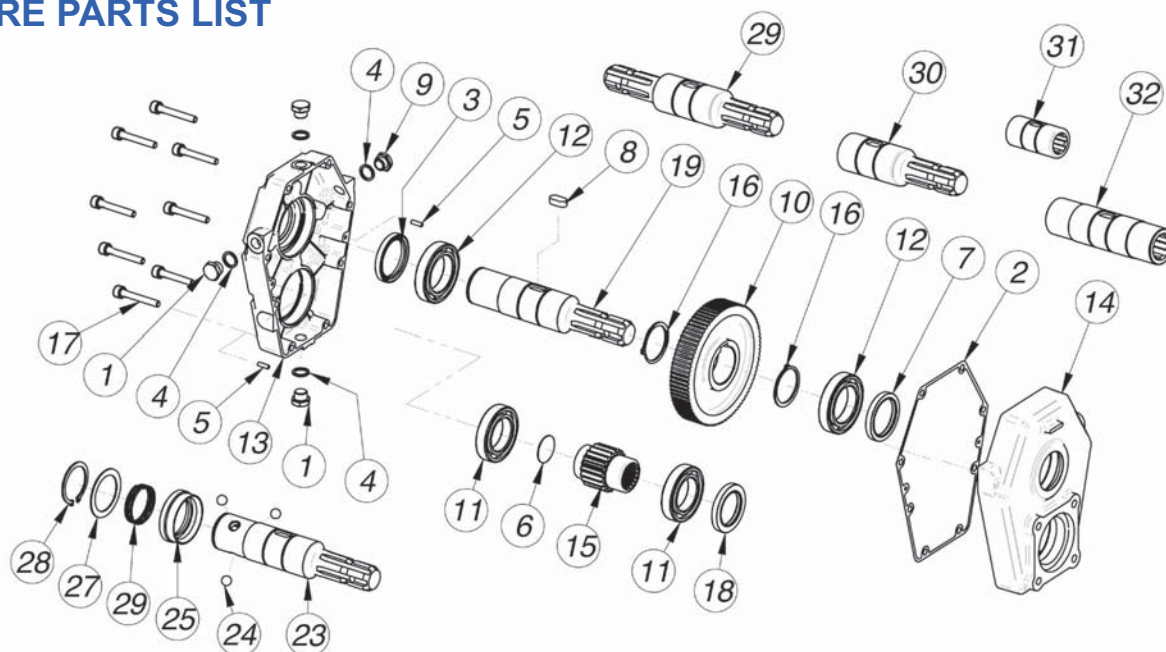
5 - Male - Long Female shaft ASAE 1-3/8"
 6 - Long Female - Long Female shaft ASAE 1-3/8"
 7 - Male - Male shaft ASAE 1-3/8"
 8 - Male - Quick Coupling shaft ASAE 1-3/8"
 9 - Short Female - Short Female shaft ASAE 1-3/8"
 11- Male - Short Female shaft ASAE 1-3/8"

Gear Ratio N2 / N1

Code - Ratio	Shaft	5	6	7	8	9	11
0 - 1							
1 - 1,5		x	x	x			
2 - 2		x	x	x	x		x
3 - 2,5		x	x	x	x		
4 - 3		x	x	x	x	x	x
5 - 3,5		x	x	x	x	x	x
6 - 3,8		x	x	x	x	x	x

blank - not available x - Available

SPARE PARTS LIST

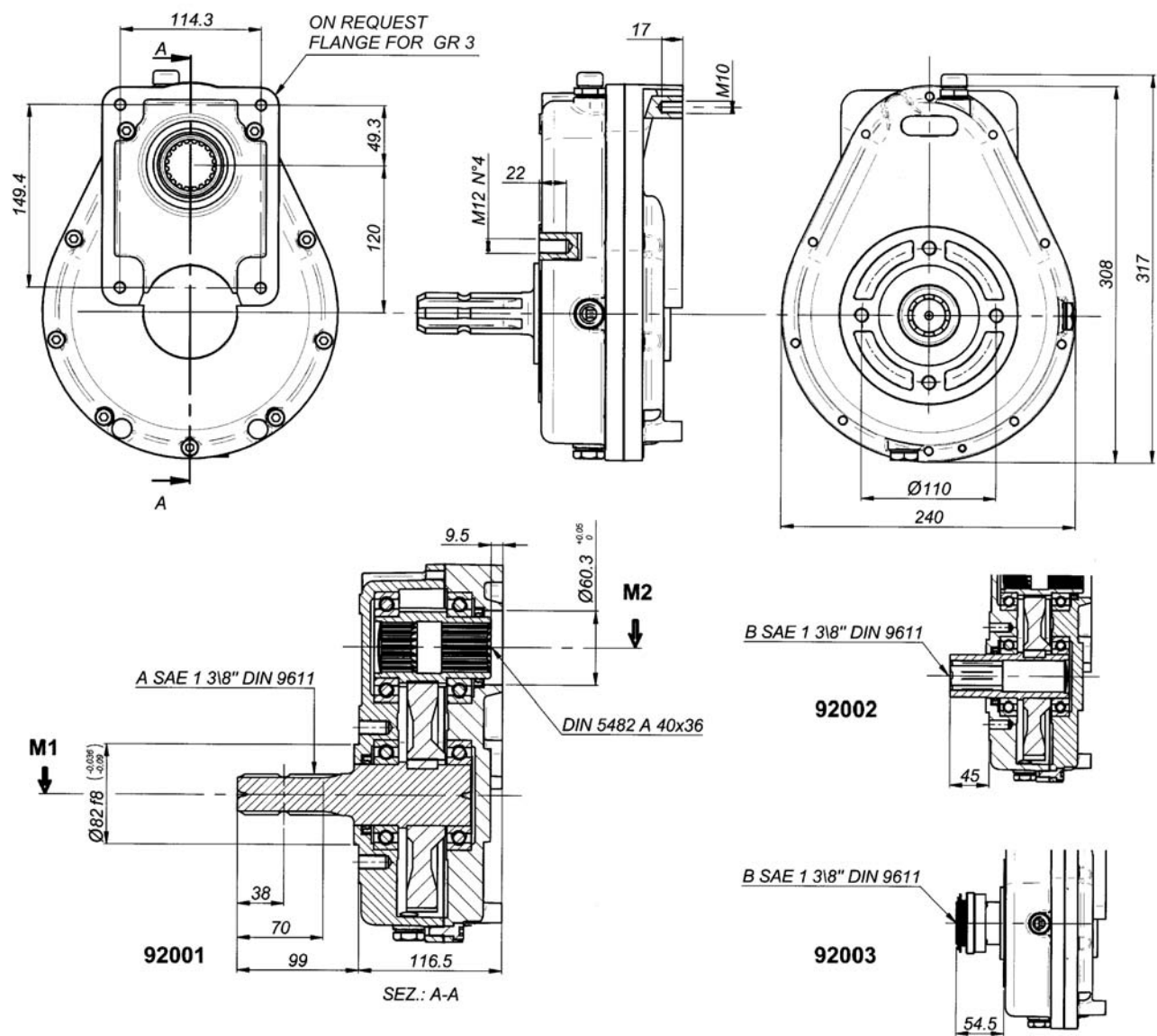


Ref.	DESCRIPTION	Q.ty'
1	Oil drain plug 3/8"	3
2	Gasket	1
3	Sealing ring 50x65x8	1
4	Gasket	4
5	Peg UNI 8751 5x16	2
6	Cap DIN 470 D.37	1
7	Sealing ring 50x65x8	1
8	Key 12x25	1
9	Oil drain plug 3/8"	1
10	Ring gear	1
11	Bearing 6009	2
12	Bearing 6010	2
13	Housing cats iron	1
14	Cover	1
15	Pinion gear	1
16	Snap ring d.50	2

Ref.	DESCRIPTION	Q.ty'
17	Socket capscrow M8x55	8
18	Sealing ring 45x65x8	1
19	Female-Male P.T.O. shaft 1"3/8" Z6	1
23	Male P.T.O. -Quick fitting shaft 1"3/8" Z6	1
24	Ball d.13	1
25	Spring ring	1
27	Ring	1
28	Snap ring UNI 7435 - 50	1
29	Spring	1
29	Male-Male P.T.O. shaft 1"3/8" Z6	1
30	Female-Male P.T.O. shaft 1"3/8" Z6 short	1
31	Female P.T.O. shaft 1"3/8" Z6 short	1
32	Female P.T.O. shaft 1"3/8" Z6	1

Speed-up Gearboxes Series 92000 (MTL 3,5)
40 kW - Aluminium - Outlet pump flange Gr. 3,5

INSTALLATION DRAWING



Housing oil capacity: lt. 0,600

INPUT TORQUE M1 daNm	OUTPUT TORQUE M 2 daNm	INPUT SPEED N 1 n /min.	OUTPUT SPEED N 2 n/min.	RATIO N2 / N1	POWER kW	MASS kg
80	40	540	1080	2	40	16
88	35	540	1350	2.5	40	16
99	32	540	1674	3.1	40	16
105	28	540	1998	3.7	40	16

Speed-up Gearboxes Series 92000 (MTL 3,5) 40 kW - Aluminium - Outlet pump flange Gr. 3,5

ORDER CODE

9200	-	1	-	6	-	
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Speed-Up Gearbox Series 92000 (MTL 3,5)
Outlet pump flange Gr 3,5 - Gr 3
Cast Iron Housing

Special versions

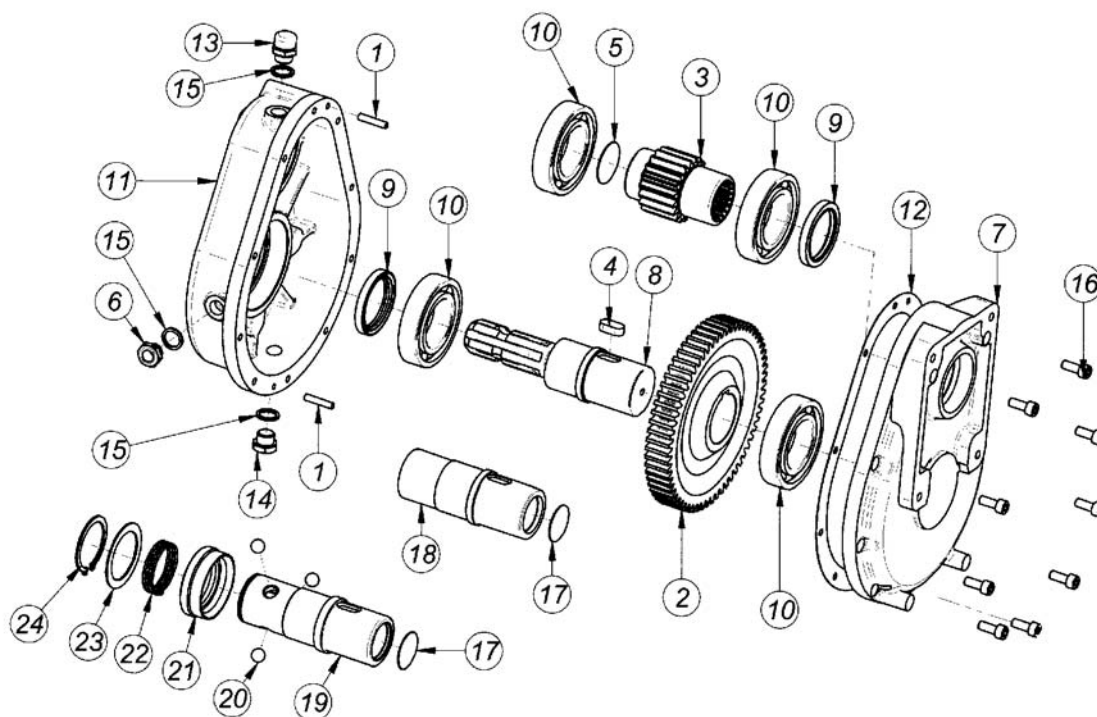
Inlet shaft

1 - Male shaft A SAE 1-3/8"
2 - Female Shaft SAE 1-3/8"
3 - Quick coupling female shaft SAE 1-3/8"

Gear Ratio N2 / N1

Code - Ratio	Shaft	1	2	3
1- 2				x
2- 2,5		x		
3- 3,1		x	x	x
5- 3,7		x	x	x
blank - not available		x - Available		

SPARE PARTS LIST



REF.	DESCRIPTION	Q.ty
1	Peg d.6	2
2	Ring gear	1
3	Pinion gear	1
4	Key 12x25	1
5	Cap DIN 470 D.42	1
6	Oil drain plug 3/8"	1
7	Cover	1
8	Male P.T.O. shaft 1" 3/8	1

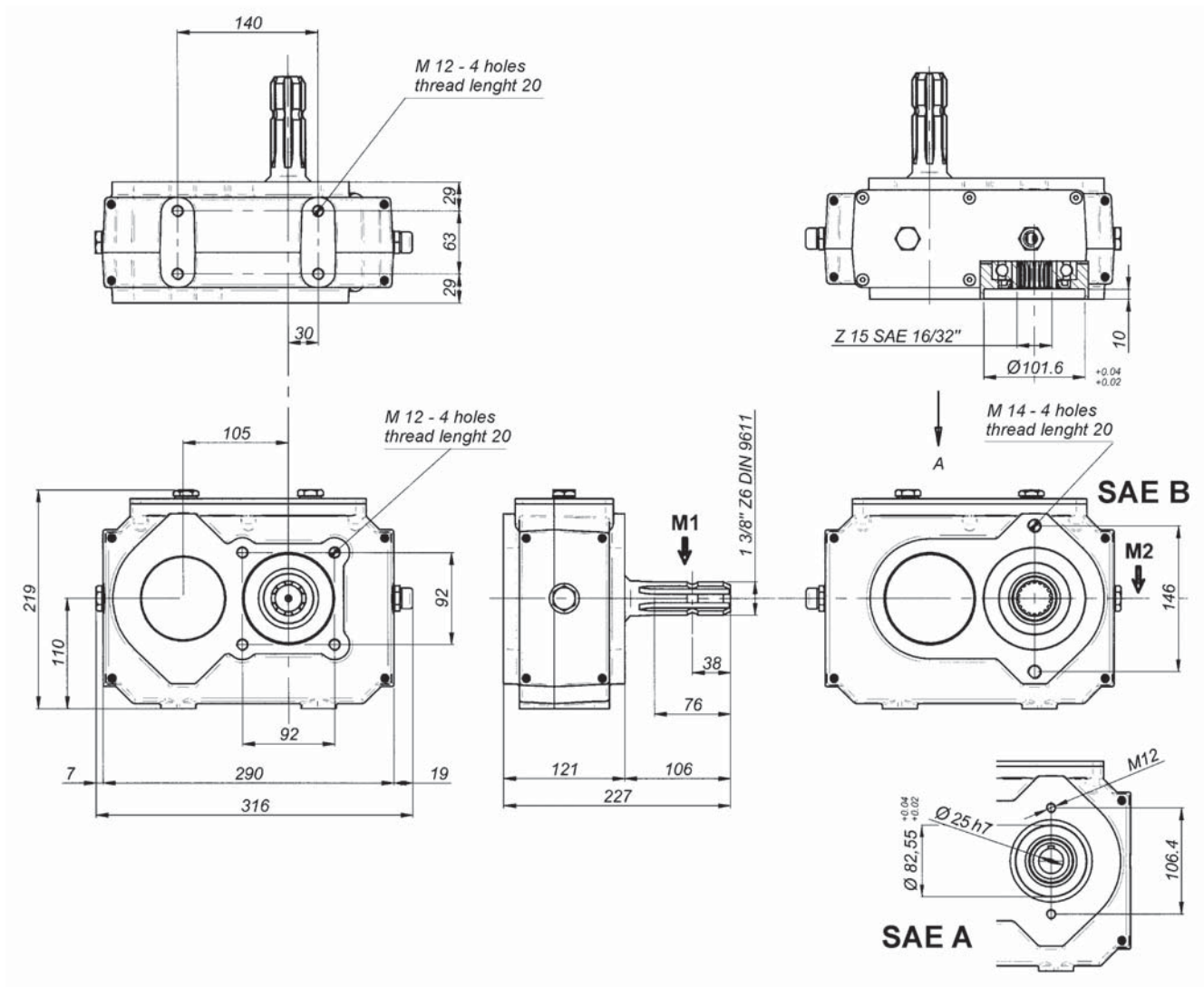
REF.	DESCRIPTION	Q.ty
9	Sealing ring 50x65x8	2
10	Bearing 6210	4
11	Housing	1
12	Gasket	1
13	Oil breather plug 3/8"	1
14	Oil drain plug 3/8"	1
15	Gasket	3
16	Socket capscREW M8x20	9
17	Cap DIN 470 D.37	1

REF.	DESCRIPTION	Q.ty
18	Female P.T.O. shaft 1" 3/8	1
19	Female P.T.O. shaft 1"3/8" Z6, Quick coupling	1
20	Ball	3
21	Spring ring	1
22	Spring	1
23	Ring	1
24	Snap ring UNI 7435 - 50	1

Speed-up Gearboxes Series 97601

68 kW - Cast iron housing - Outlet pump flange SAE A - SAE B

INSTALLATION DRAWING



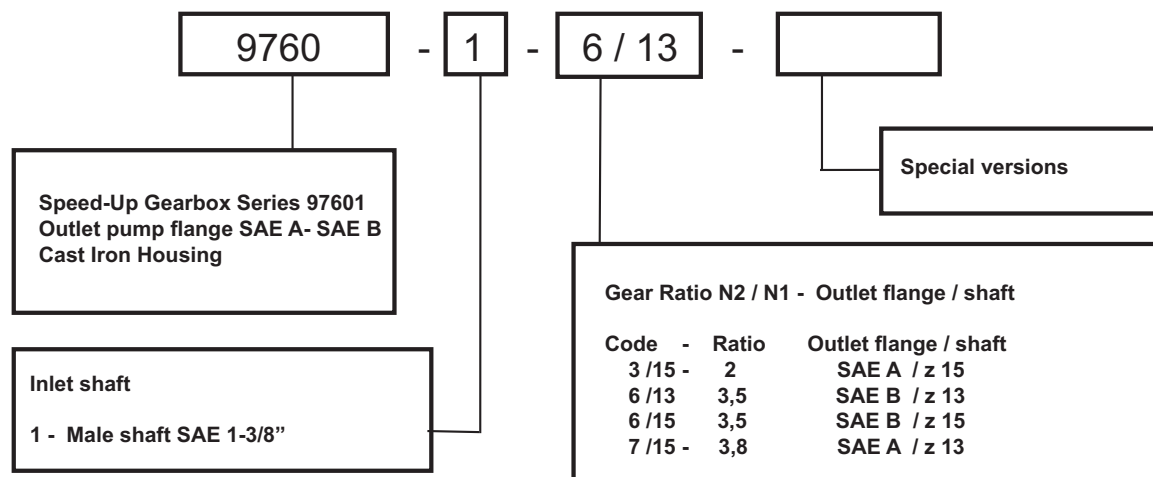
Housing oil capacity : lt 1,50

INPUT TORQUE M1 da Nm	OUTPUT TORQUE M2 da Nm	INPUT SPEED N1 n/min.	OUTPUT SPEED N2 n/min.	RATIO N2 / N1	POWER kW	MASS kg
98	49	540	1080	2	68	16
112,5	45	540	1408	2,5	68	16
132	44	540	1620	3	68	16
112,5	35	540	1836	3,5	68	16
110,2	29	540	2057	3,8	68	16

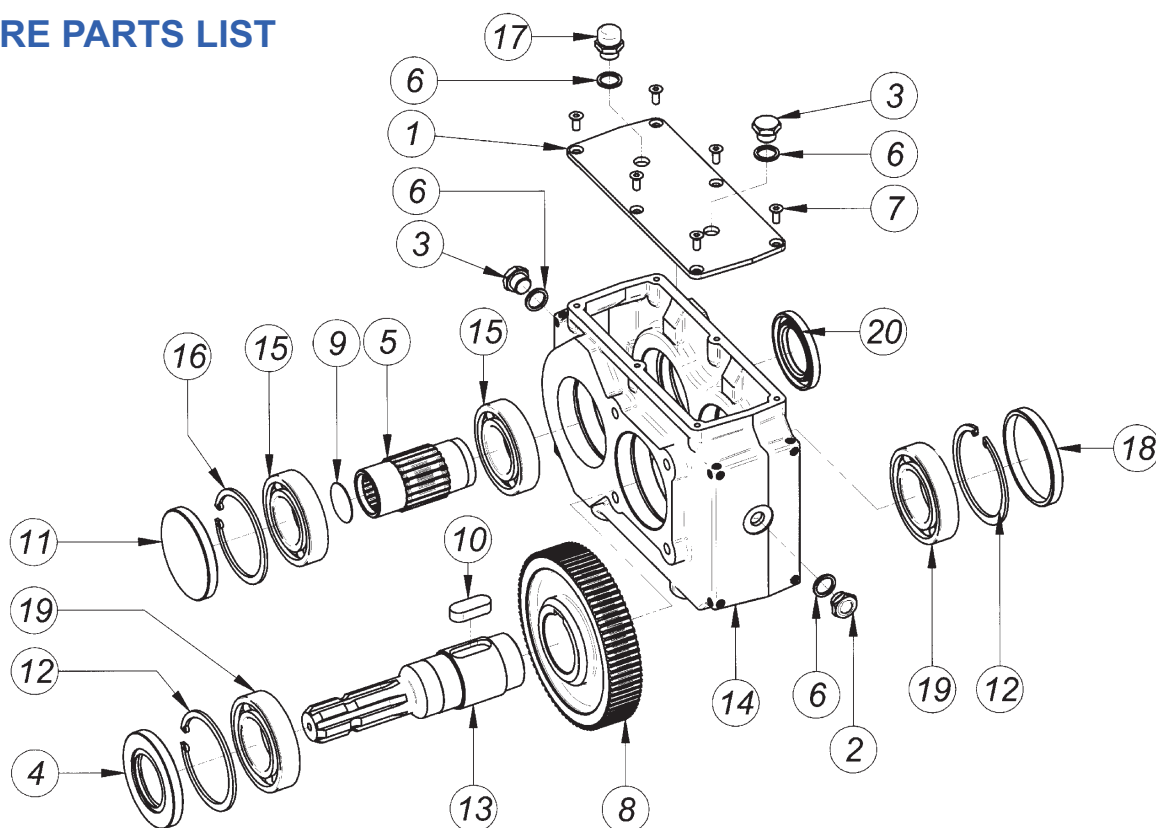
Speed-up Gearboxes Series 97601

68 kW - Cast iron housing - Outlet pump flange SAE A - SAE B

ORDER CODE



SPARE PARTS LIST



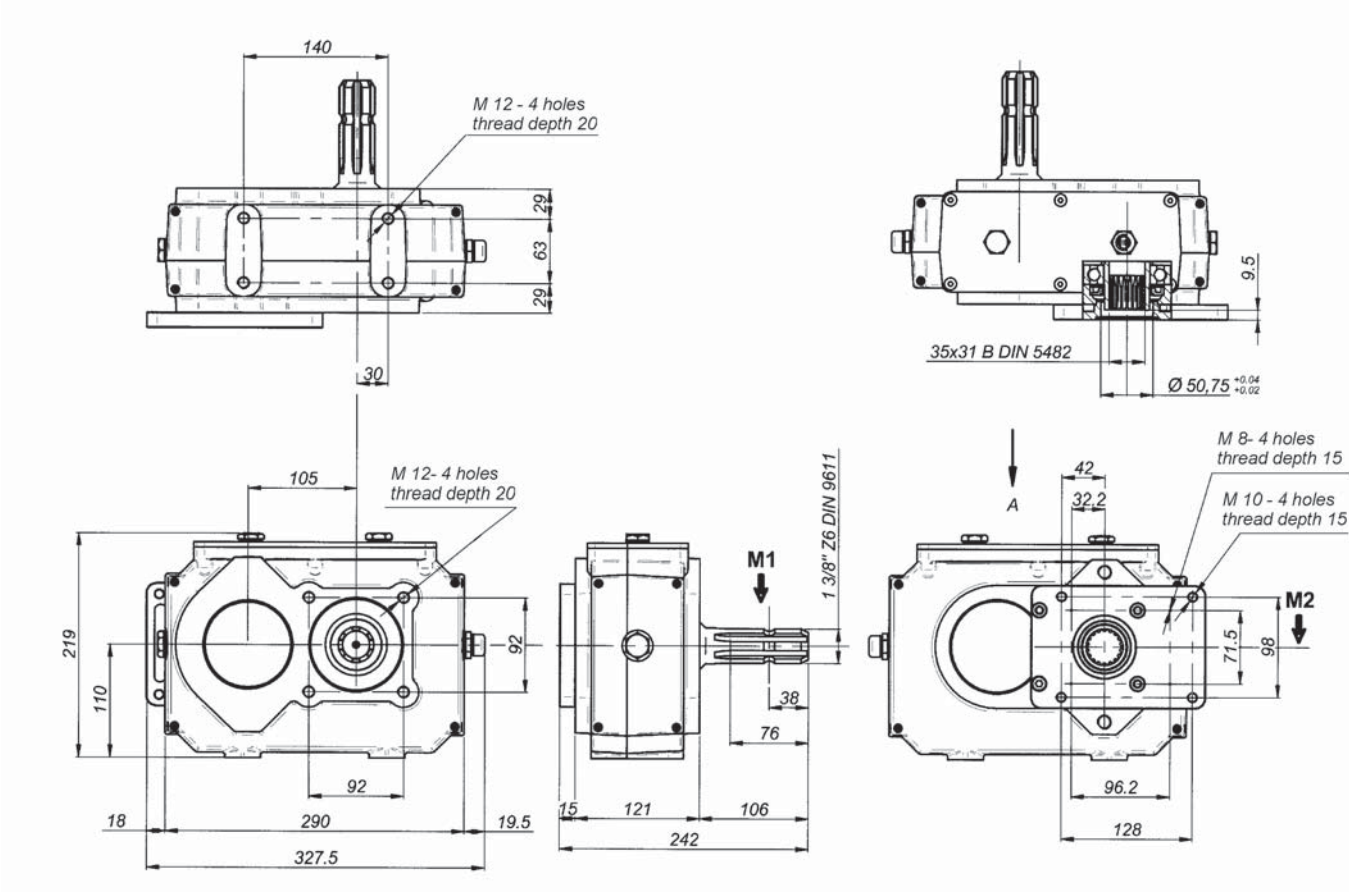
REF.	DESCRIPTION	Q.ty
1	Cover	1
2	Oil drain plug 3/8"	1
3	Oil drain plug 3/8"	2
4	Sealing ring 50x90x10	1
5	Pinion gear	1
6	Gasket	4
7	Socket UNI 5933 M6x15	6

REF.	DESCRIPTION	Q.ty
8	Ring gear	1
9	Cap DIN 470 D.37	1
10	Key UNI 6604 12x8x40	1
11	Plug 85x10	1
12	Snap ring UNI 7434 - 90	2
13	Male P.T.O. shaft 1 3/8"	1

REF.	DESCRIPTION	Q.ty
14	Housing	1
15	Bearing 6209 (45-85-19)	2
16	Seeger UNI 7434 - 85	1
17	Oil breather plug 3/8"	1
18	Plug 90x10	1
19	Bearing 6210	2
20	Sealing ring 45x72x8	1

Speed-up Gearboxes Series 97701
68 kW - Cast iron housing - Outlet pump flange Gr. 2 - Gr. 3

INSTALLATION DRAWING



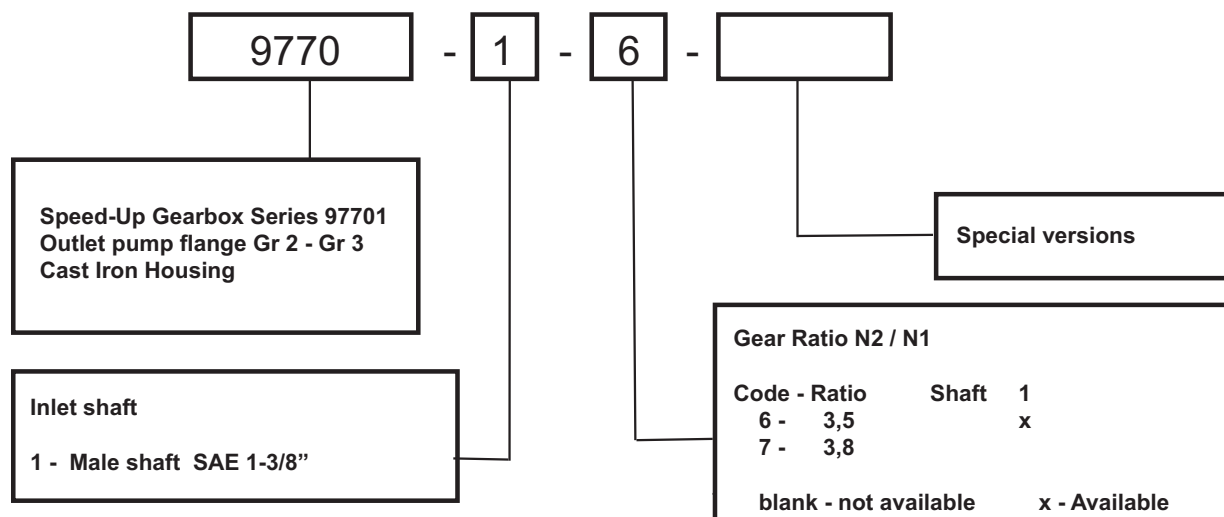
Housing oil capacity: lt. 1,50

M1 da Nm	M2 da Nm	N. 1 giri/1' tours/1' R.P.M U/min	N. 2 giri/1' tours/1' R.P.M U/min	I N.1/N.2	POTENZA Kw	G Kg
98	49	540	1080	2	68	16
112,5	45	540	1408	2,5	68	16
132	44	540	1620	3	68	16
112,5	35	540	1836	3,5	68	16
110,2	29	540	2057	3,8	68	16

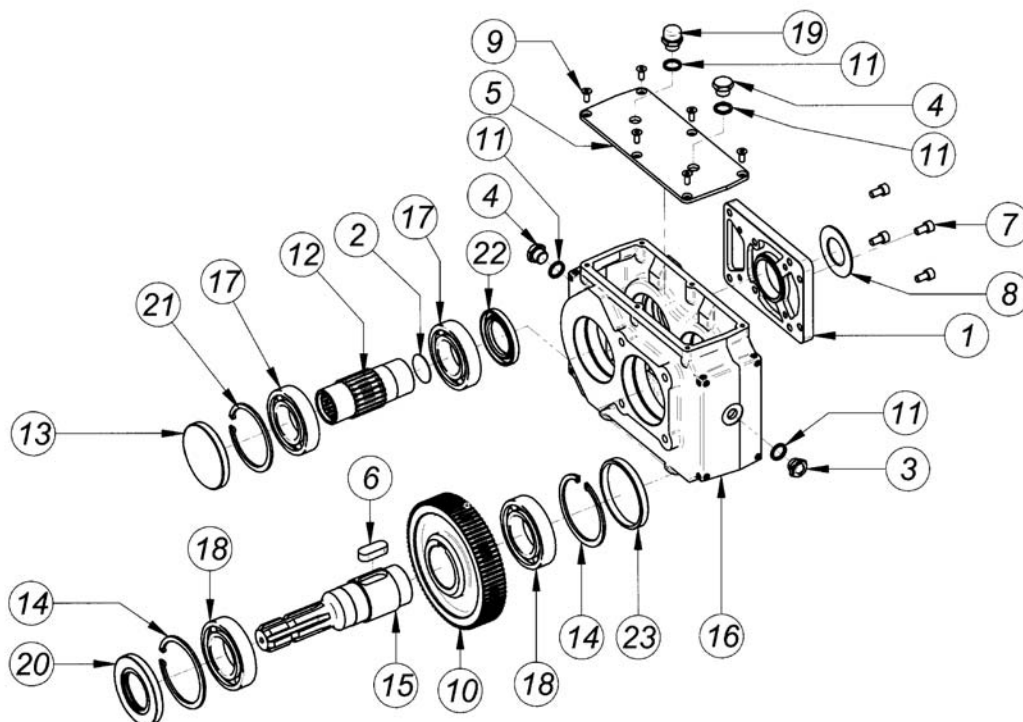
Speed-up Gearboxes Series 97701

68 kW - Cast iron housing - Outlet pump flange Gr. 2 - Gr. 3

ORDER CODE



SPARE PARTS LIST

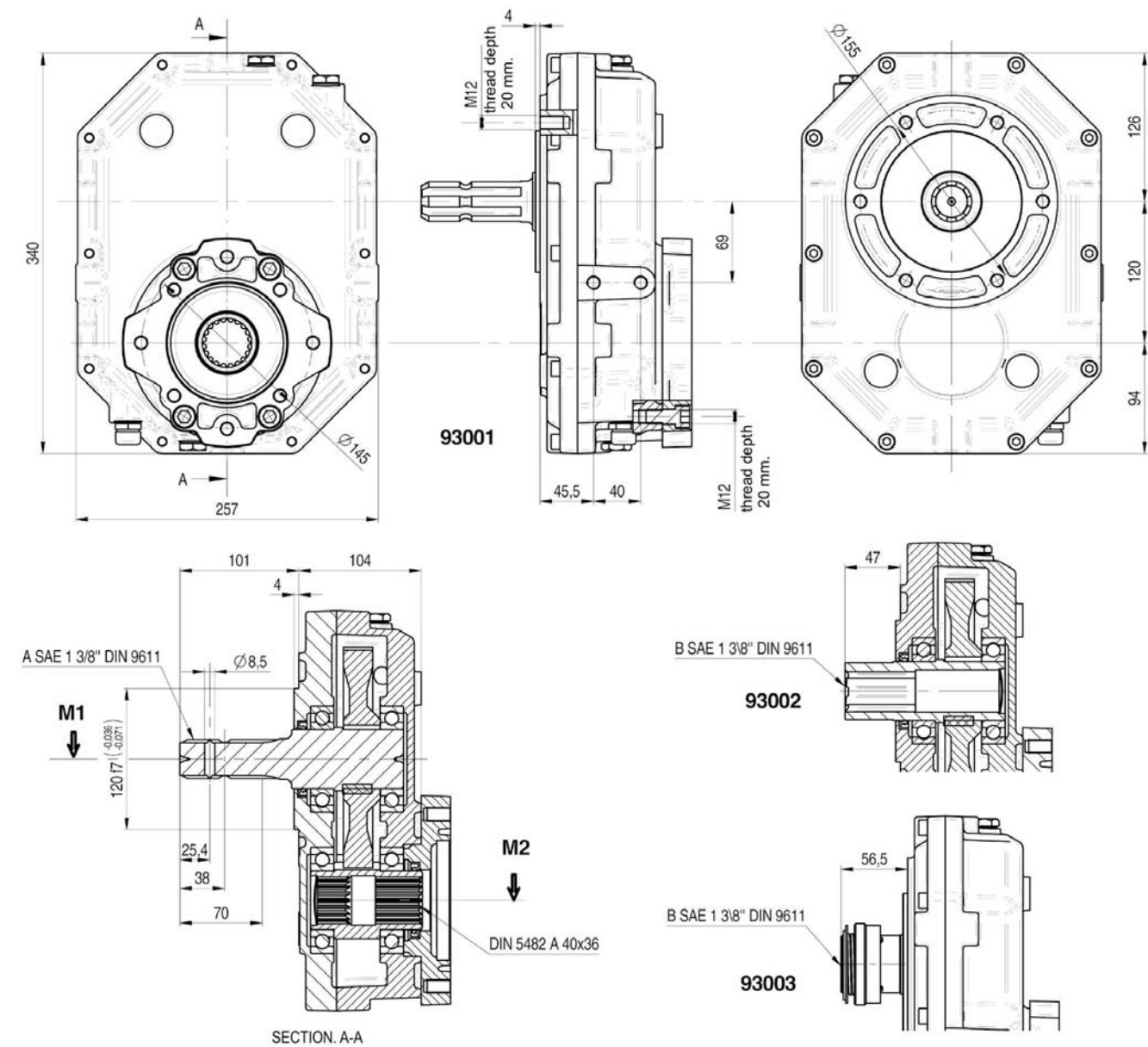


REF.	DESCRIPTION	Q.ty
1	Flange for pump group 2 and 3	1
2	Cap DIN 470 D.37	1
3	Oil drain plug 3/8"	1
4	Oil drain plug 3/8"	2
5	Cover	1
6	Key UNI 6604 12x8x40	1
7	Socket capscREW M8x15	4
8	Centering ring for pump group 2	1

REF.	DESCRIPTION	Q.ty
9	Socket UNI 5933 M6x15	6
10	Ring gear	1
11	Gasket	4
12	Pinion gear	1
13	Plug 85x10	1
14	Snap ring UNI 7434 - 90	2
15	Male P.T.O. shaft 1 3/8"	1

REF.	DESCRIPTION	Q.ty
16	Housing	1
17	Bearing 6209 (45-85-19)	2
18	Bearing 6210	2
19	Oil breather plug 3/8"	1
20	Sealing ring 50x90x10	1
21	Seeger UNI 7434 - 85	1
22	Sealing ring 45x72x8	1
23	Plug 90x10	1

Speed-up Gearboxes Series 93000
68 kW - Cast iron housing - Outlet pump flange Gr. 4
INSTALLATION DRAWING



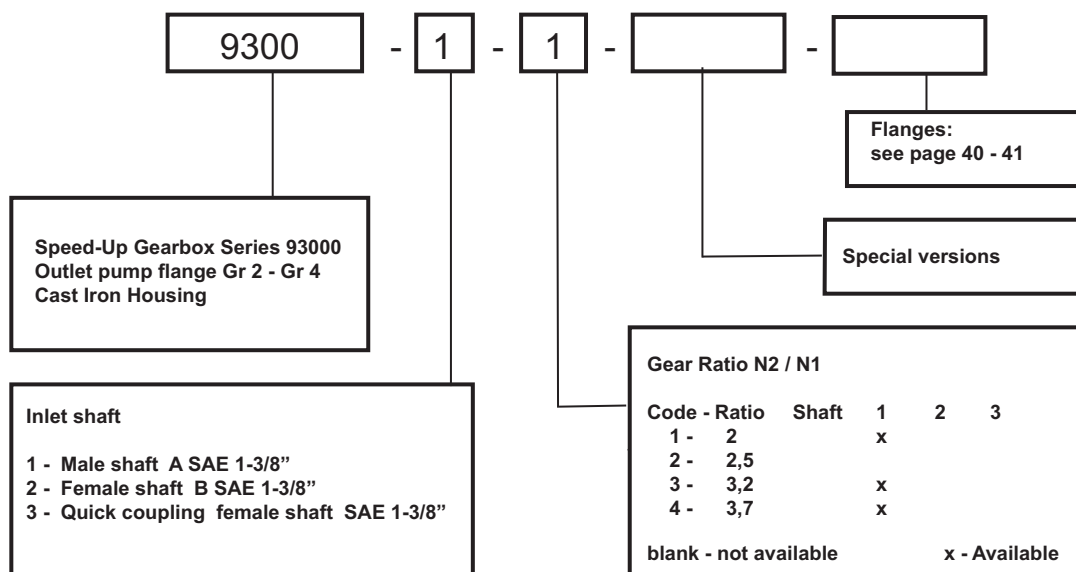
Housing oil capacity : lt 1,350

INPUT TORQUE M1 da Nm	OUTPUT TORQUE M2 da Nm	INPUT SPEED N1 n/min.	OUTPUT SPEED N2 n/min.	RATIO N2 / N1	POWER kW	MASS kg
120	60	540	1080	2	68	27
124	49,50	540	1350	2,5	70	27
128	40	540	1728	3,2	72	27
117	31,5	540	1998	3,7	66	27

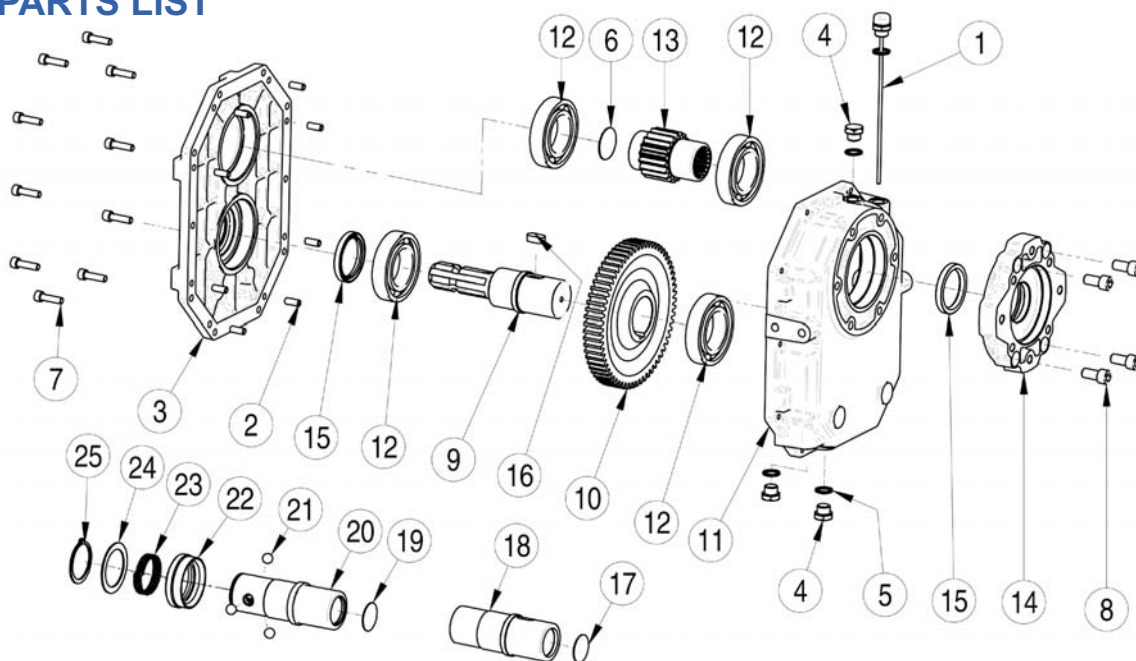
Speed-up Gearboxes Series 93000

68 kW - Cast iron housing - Outlet pump flange Gr. 4

ORDER CODE



SPARE PARTS LIST



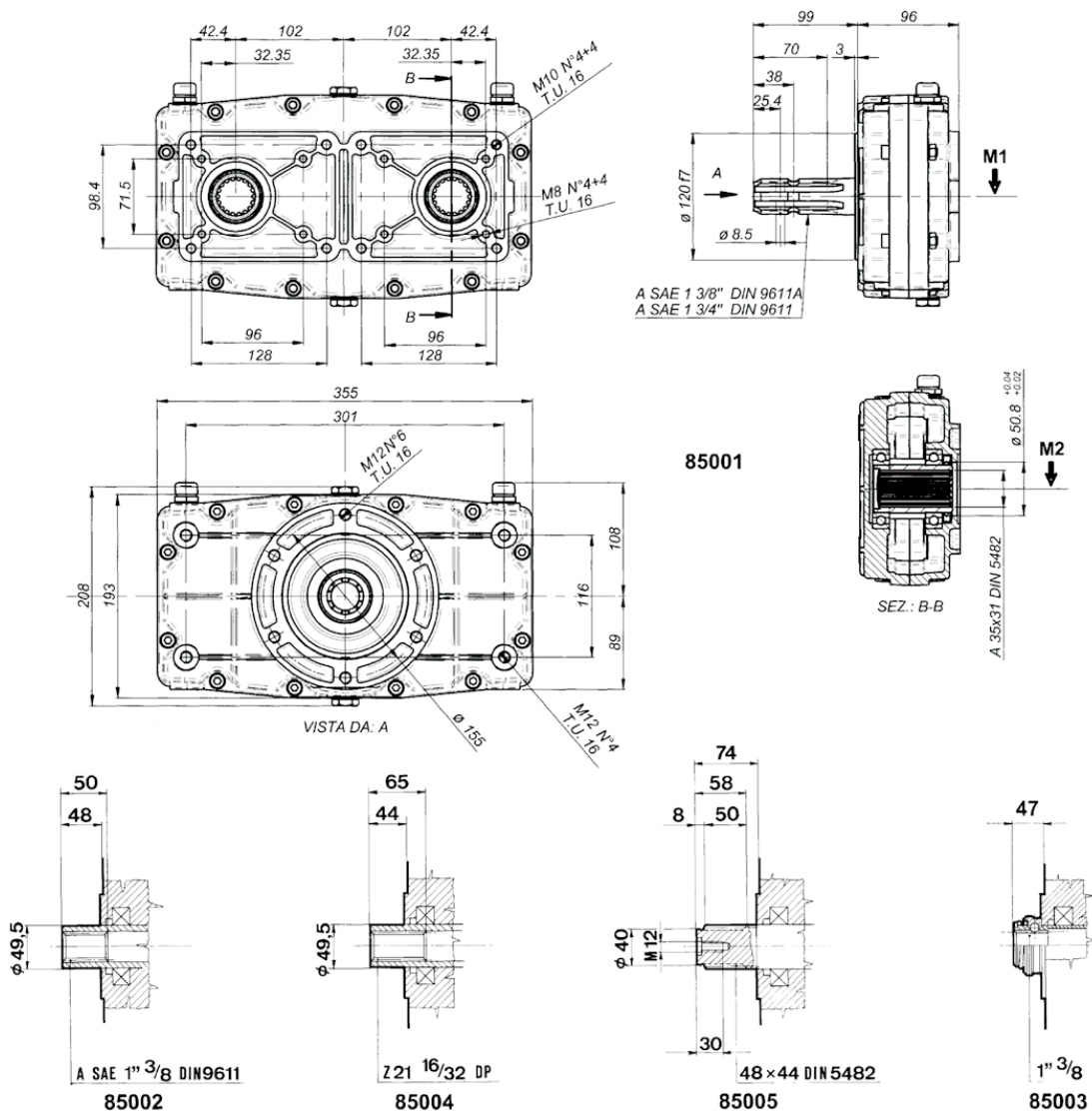
Ref.	DESCRIPTION	Q.ty
1	Oil breather plug 3/8"	1
2	Peg UNI 8751 8x20	8
3	Cover	1
4	Oil drain plug 3/8"	3
5	Gasket	4
6	Cap DIN 470 D.42	1
7	Socket cap screw M8x30	10
8	Socket cap screw M12x25	4
9	Male P.T.O. shaft 1" 3/8	1
10	Ring gear	1
11	Housing	1
12	Bearing 6210	4
13	Pinion gear	1

Ref.	DESCRIPTION	Q.ty
14	Flange	1
15	Sealing ring 50x65x8	2
16	Key 12x25	1
17	Cap DIN 470 D.37	1
18	Female P.T.O. shaft 1" 3/8	1
19	Cap DIN 470 D.37	1
20	Female P.T.O. shaft 1" 3/8" Z6, Quick fitting	1
21	Ball d.13	1
22	Spring ring	1
23	Spring	1
24	Ring	1
25	Snap ring d.50	1

Splitter Gearboxes Series 85000

35 kW - Aluminium - Outlet pump flange Gr. 2 - 3

INSTALLATION DRAWING



Housing oil capacity:lt 1,30

INPUT TORQUE M 1 daNm	OUTPUT TORQUE M 2 daNm	INPUT SPEED N 1 n/min.	OUTPUT SPEED N 2 n/min.	RATIO N2 / N1	POWER kW	MASS kg
63,4	31,7	540	540	1	35	14
76,8	25,6	540	810	1.5	35	14
86,8	23,7	540	1080	2	35	14
92,5	17,8	540	1408	2.5	35	14
96,6	16,1	540	1620	3	35	14
90,4	13,3	540	1836	3.5	35	14
87.4	16.6	540	2057	3.8	35	14

Splitter Gearboxes Series 85000

35 kW - Aluminium - Outlet pump flange Gr. 2 - 3

ORDER CODE

8500

1

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Splitter Gearbox Series 85000
Outlet pump flange:
Gr. 2 - 3 - SAE A - SAE B

Inlet shaft

1 - Male shaft A SAE 1- 3/8"
 2 - Long Female shaft A SAE 1- 3/8"
 3 - Quick Coupling Female shaft A SAE 1- 3/8"
 4 - Long Female shaft Z 21 16/32 DP

Flanges:
see page 39

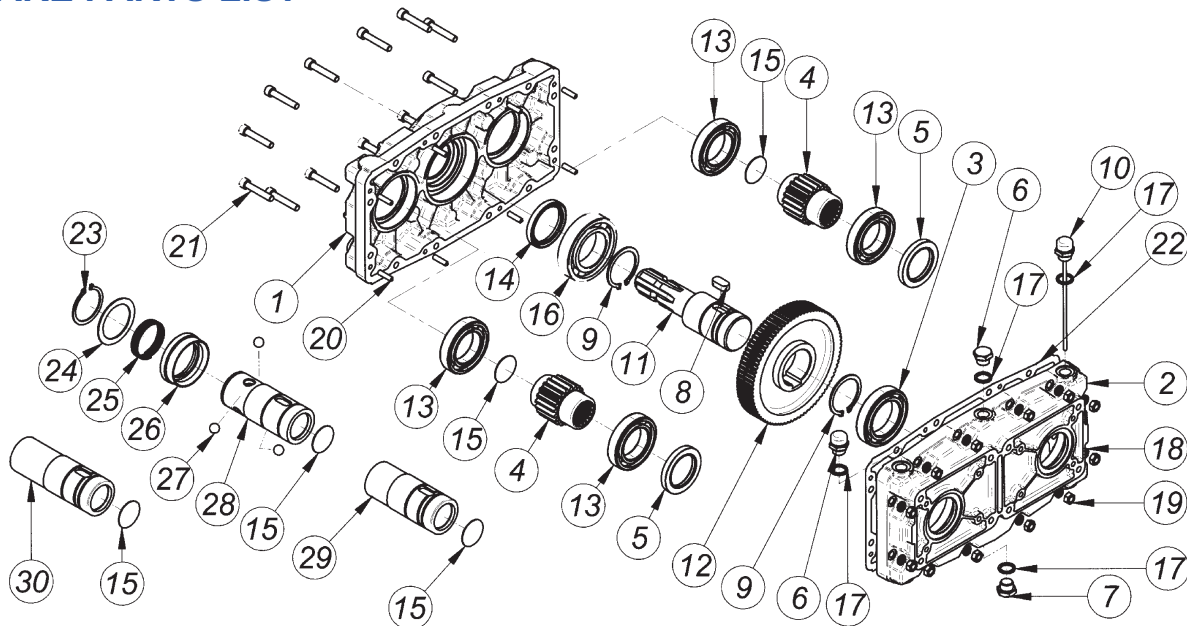
Special versions

Gear Ratio N 2 / N 1

Code - Ratio	Shaft	1	2	3	4
1 - 1		x	x	x	
2 - 1,5		x	x	x	
3 - 2		x	x	x	
4 - 2,5		x	x	x	x
5 - 3		x	x	x	x
6 - 3,5		x	x	x	
7 - 3,8		x	x	x	

blank - not available x - Available

SPARE PARTS LIST



Ref.	DESCRIPTION	Q. ty
1	Housing	1
2	Cover	1
3	Bearing 6010	1
4	Pinion gear	2
5	Sealing ring 45x65x8	2
6	Oil plug 3/8"	2
7	Oil drain plug 3/8"	1
8	Key 12x25	1
9	Snap ring UNI 7435 - 50	2
10	Oil dipstick with vent	1

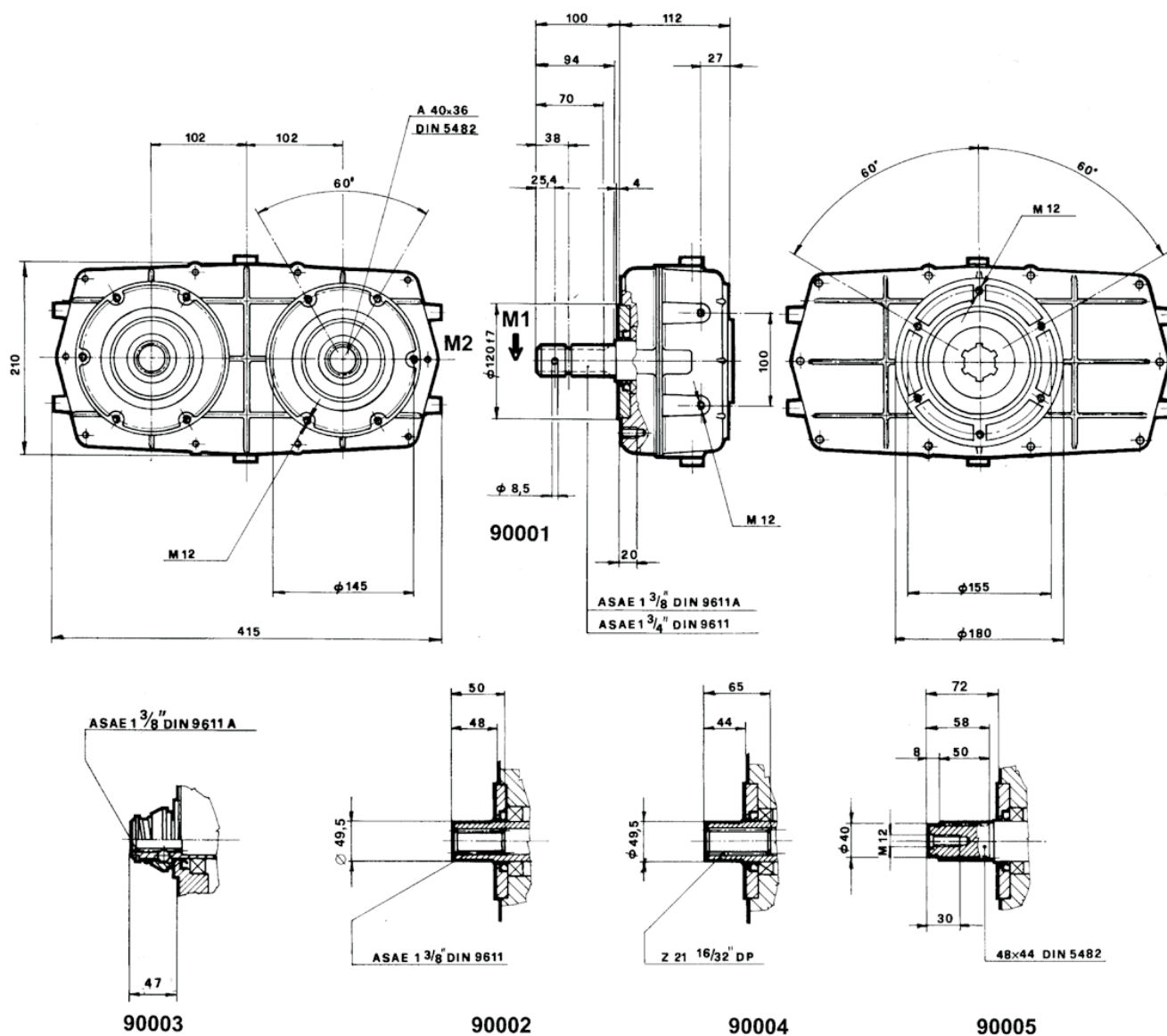
Ref.	DESCRIPTION	Q. ty
11	Male P.T.O. shaft 1"3/8 Z6	1
12	Ring gear	1
13	Bearing 6009	4
14	Sealing ring 50x65x8	1
15	Cap DIN 470 D.38	5
16	Bearing 6210	1
17	Gasket	4
18	Washer Grower d.8	12
19	Nut M8	12
20	Peg UNI 8751 6x24	8

Ref.	DESCRIPTION	Q. ty
21	Socket capscrew M8x45	12
22	Gasket	1
23	Snap ring UNI 7435-48	1
24	Ring	1
25	Spring	1
26	Spring ring	1
27	Ball	3
28	Female P.T.O. shaft - 1"3/8" Z6 quick coupling	1
29	Female-Female P.T.O. shaft short 1" 3/8	1
30	Female-Female P.T.O. shaft longh 1" 3/8	1

Splitter Gearboxes Series 90000

45 kW - Aluminium - Outlet pump flange Gr. 3 - 3,5

INSTALLATION DRAWING



Housing oil capacity: It 1,80

M1 da Nm	M2 da Nm	N. 1 giri/1' tours/1' R.P.M U/min	N. 2 giri/1' tours/1' R.P.M U/min	I N.1/N.2	POTENZA Kw	G Kg
93,4	46,6	540	540	1	45	18
96	32	540	810	1,5	45	18
96,8	24,2	540	1080	2	45	18
93,6	18	540	1408	2,5	45	18
97,8	16,3	540	1620	3	45	18
91,8	13,1	540	1836	3,5	45	18
95	12	540	2052	3,8	45	18
94,40	11,8	540	2160	4	45	18
94	9,8	540	2592	4,8	45	18

Splitter Gearboxes Series 90000

45 kW - Aluminium - Outlet pump flange Gr. 3 - 3,5

ORDER CODE

9000

1

- 1 -

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Splitter Gearbox Series 90000
Outlet pump flange Gr. 3 - 3,5

Inlet shaft

 1 - Male shaft SAE 1-3/8"
 2 - Long Female shaft SAE 1-3/8"
 3 - Quick Coupling Female shaft SAE 1-3/8"
 5 - Male shaft DIN 5282

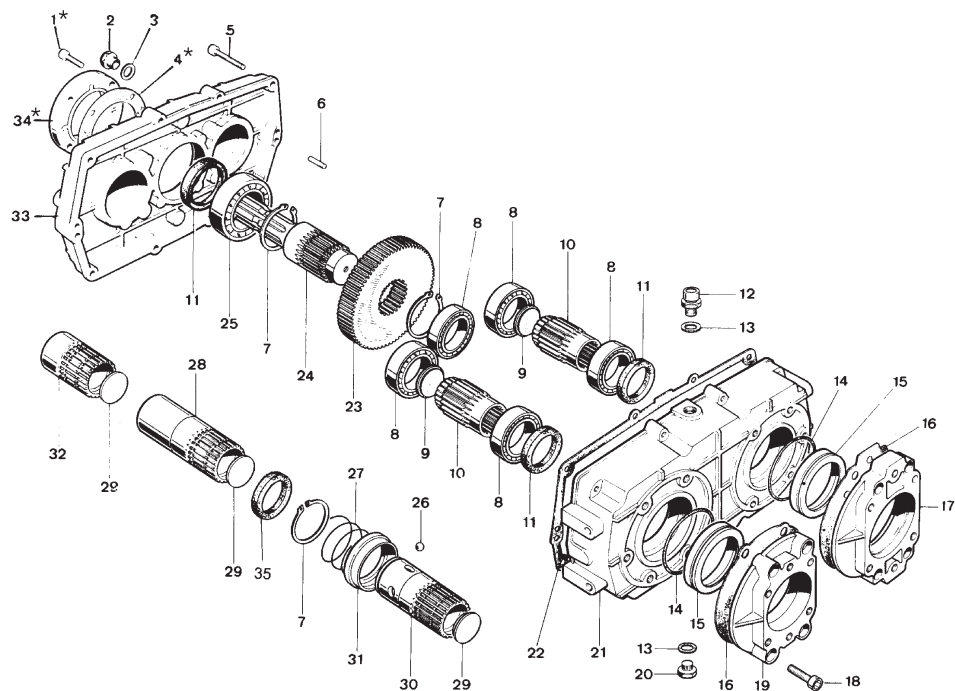
Flanges:
 see page 40 - 41

Special versions

Gear Ratio N 2 / N 1					
Code - Ratio	Shaft	1	2	3	5
1 - 1		x	x	x	x
2 - 1,5		x	x	x	x
3 - 2		x	x	x	x
4 - 2,5		x	x	x	x
5 - 3		x	x	x	x
6 - 3,5		x	x	x	x
7 - 3,8		x	x	x	x
8 - 4		x	x	x	x
9 - 4,8		x	x	x	x

blank - not available x - Available

SPARE PARTS LIST



REF.	DESCRIPTION	Q.ty
1 *	Socket capscREW M6x20	4
2	Oil level plug	1
3	Gasket	1
4 *	Gasket	1
5	Socket capscREW	10
6	Peg Ø 6	2
7	Snap ring Ø 58	3
8	Bearing type 6010	5
9	Cap DIN 470	2
10	Pinion Gear	2
11	Sealing ring Ø	3

* Item removed from production

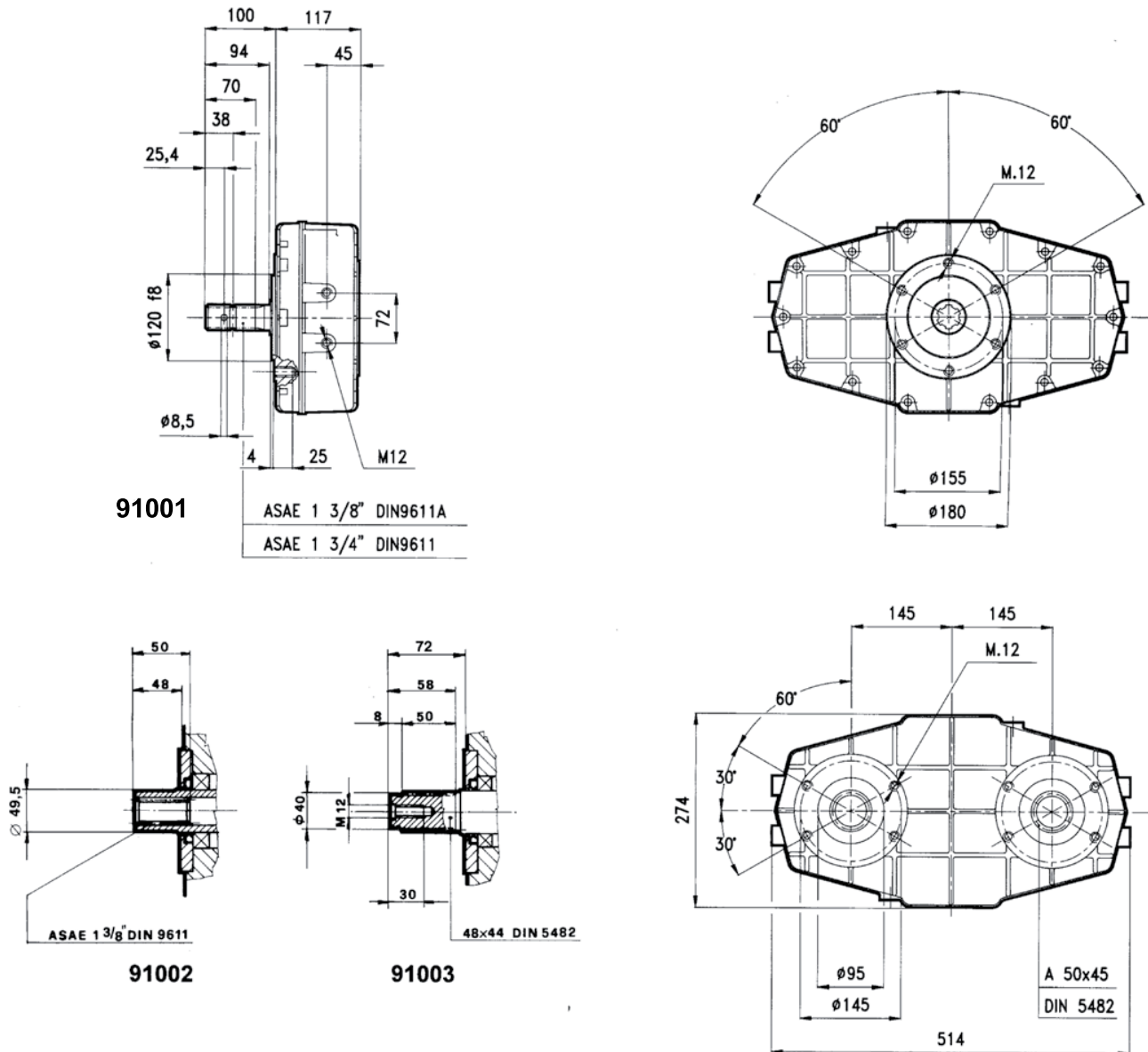
REF.	DESCRIPTION	Q.ty
12	Oil dipstick with vent	1
13	Gasket	3
14	O-Ring	2
15	Corteco Ring	2
16	Gasket	2
17	Flange SAE B	1
18	Socket capscREW	6
19	Flange SAE A	1
20	Oil drain plug 3/8"	1
21	Housing	1
22	Gasket	1
23	Ring gear	1

REF.	DESCRIPTION	Q.ty
24	Male P.T.O. shaft 1" 3/8	1
25	Bearing type 6210	1
26	Ball	3
27	Spring	1
28	Female P.T.O. shaft 1" 3/8 long	1
29	Cap DIN 470	3
30	Female P.T.O. shaft - quick coupling 1-3/8"	1
31	Spring ring	1
32	Female P.T.O. shaft 1" 3/8 short	1
33	Cover	1
34 *	Cap	1
35	Ring	1

Splitter Gearboxes Series 91000

74 kW - Aluminium - Outlet pump flange Gr. 4

INSTALLATION DRAWING



Housing oil capacity: lt 1,80

M1 da Nm	M2 da Nm	N. 1 giri/1' tours/1' R.P.M U/min	N. 2 giri/1' tours/1' R.P.M U/min	I N.1/N.2	POTENZA Kw	G Kg
132	66	540	540	1	74	20
163	39	540	1080	2	74	20
174	31	540	1350	2,5	74	20
177	27	540	1620	3	74	20
158	20	540	2030	3,8	74	20

Splitter Gearboxes Series 91000

74 kW - Aluminium - Outlet pump flange Gr. 4

ORDER CODE

9100

1

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1

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Splitter Gearbox Series 91000
Outlet pump flange Gr. 4

Flanges:
see page 40 - 41

Special versions

Inlet shaft

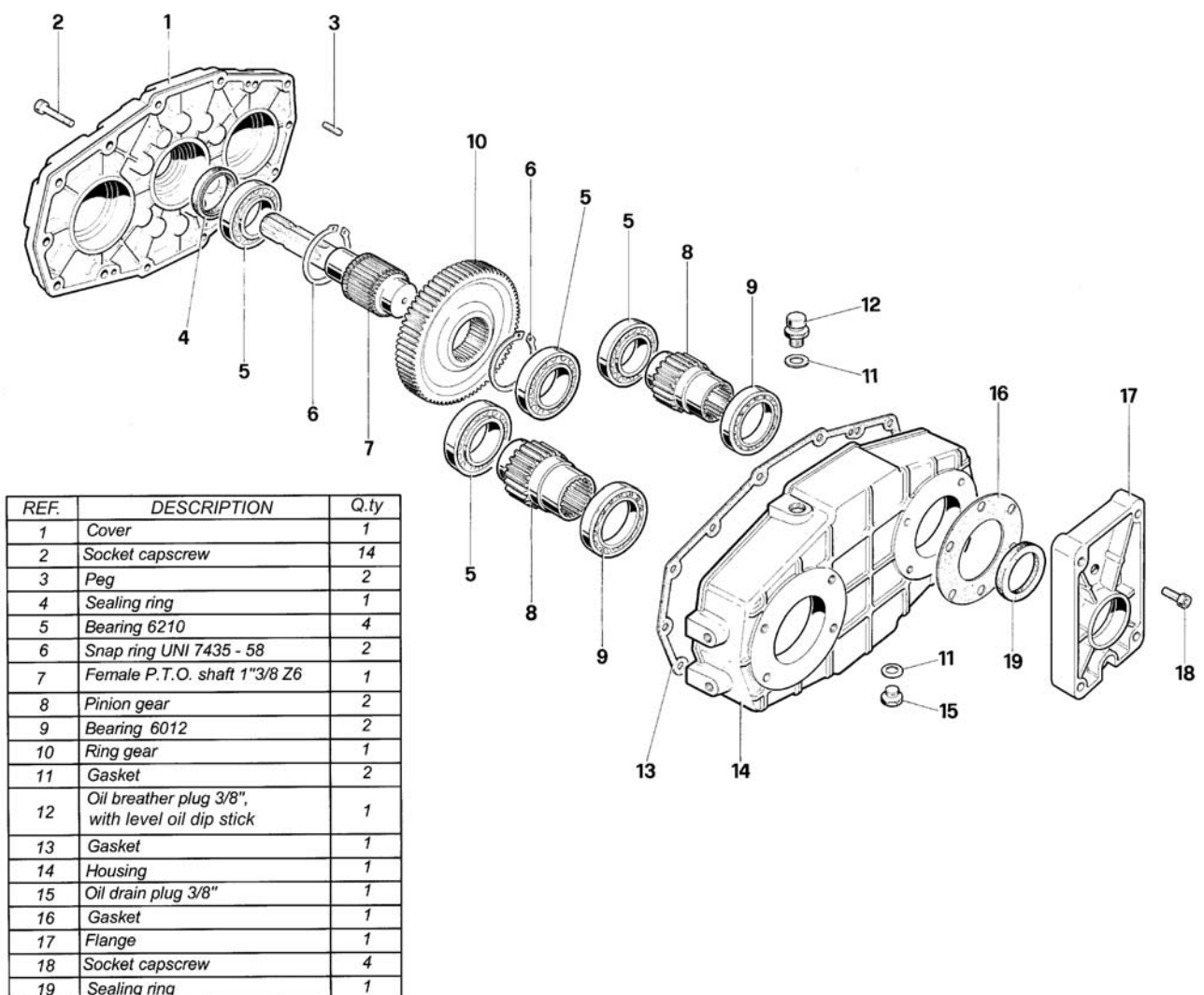
1 - Male shaft SAE 1- 3/8" (specify)
 1 - Male shaft SAE 1- /3/4" (specify)
 2 - Long Female shaft SAE 1- 3/8"
 3 - Male shaft DIN 5482

Gear Ratio N 2 / N 1

Code - Ratio	Shaft	1	2	3
1 - 1		x	x	x
2 - 1,5		x	x	x
3 - 2		x	x	x
4 - 2,5		x	x	x
5 - 3		x	x	x
6 - 3,5		x	x	x
7 - 3,8		x	x	x

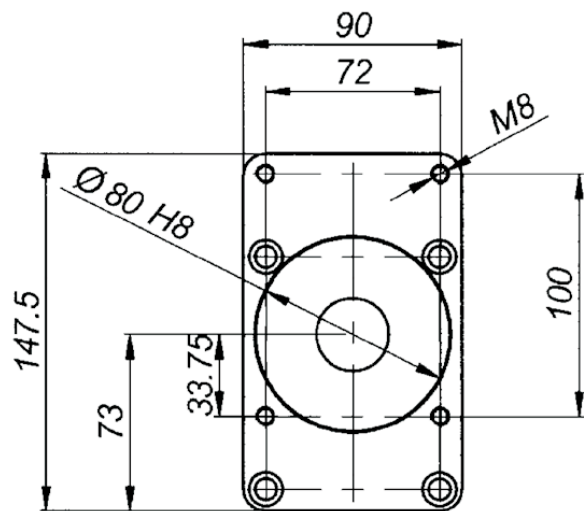
blank - not available x - Available

SPARE PARTS LIST

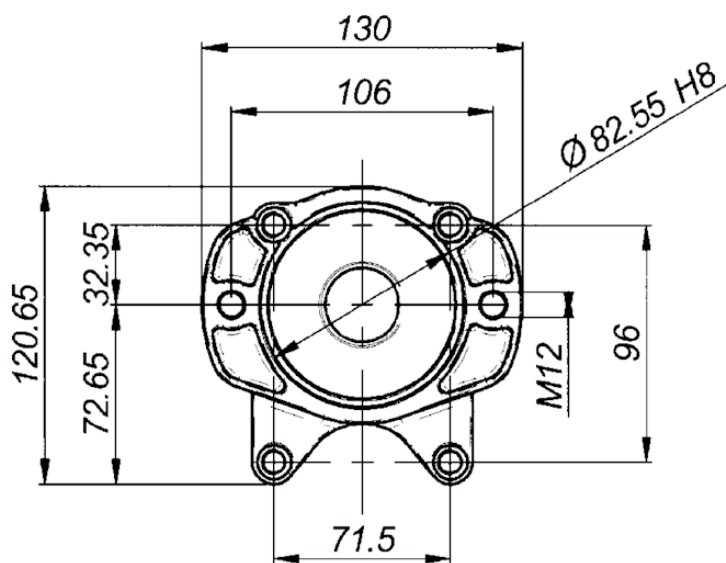


REF.	DESCRIPTION	Q.ty
1	Cover	1
2	Socket capscREW	14
3	Peg	2
4	Sealing ring	1
5	Bearing 6210	4
6	Snap ring UNI 7435 - 58	2
7	Female P.T.O. shaft 1"3/8 Z6	1
8	Pinion gear	2
9	Bearing 6012	2
10	Ring gear	1
11	Gasket	2
12	Oil breather plug 3/8", with level oil dip stick	1
13	Gasket	1
14	Housing	1
15	Oil drain plug 3/8"	1
16	Gasket	1
17	Flange	1
18	Socket capscREW	4
19	Sealing ring	1

FLANGES for SPEED-UP GEARBOX
Series 60000 (Aluminium)



50100

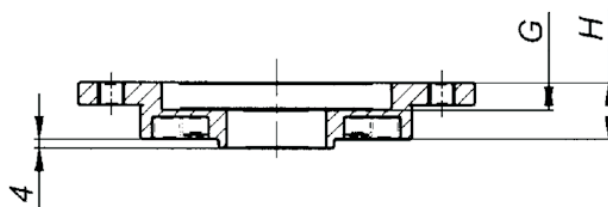
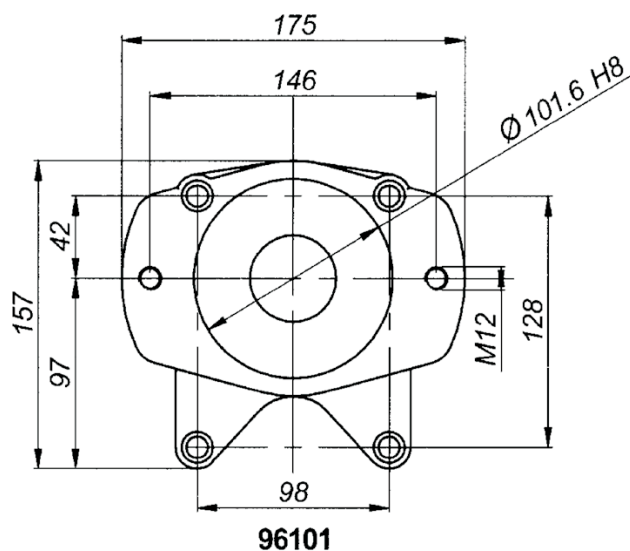
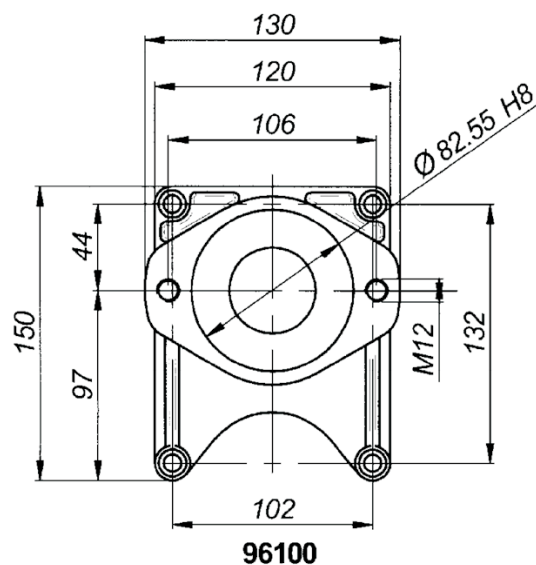


60100

	FLANGE: TYPE	
	Gr. 2 BOSCH	SAE A Gr. 2
Code	50100	60100
G	8	12
H	13	32

FLANGES for SPEED-UP and SPLITTER GEARBOXES

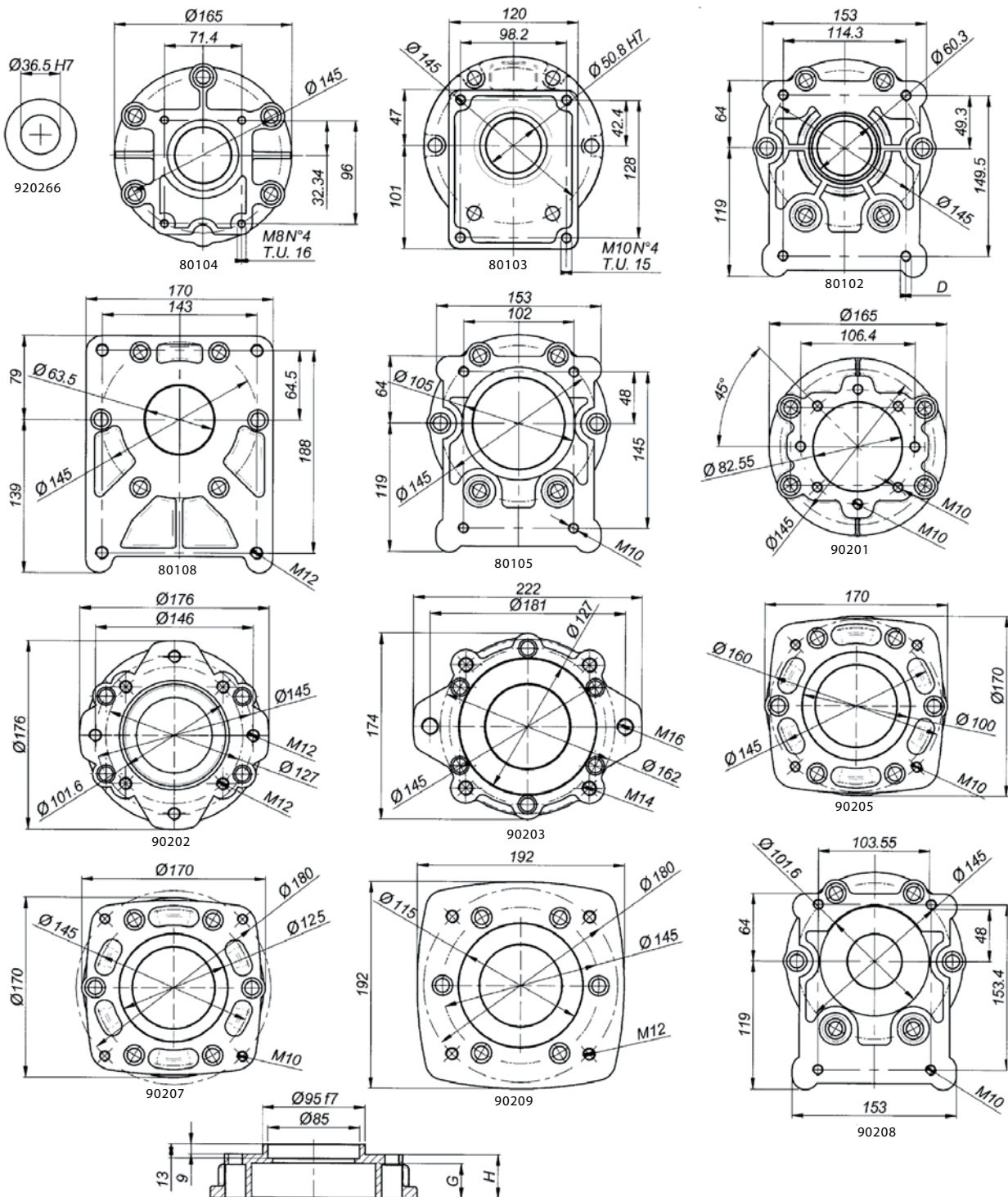
Series 71000 (Aluminium) - 70012 (Cast-iron) - 85000 (Aluminium)



	FLANGE TYPE	
	SAE A Gr. 3	SAE B Gr. 3
Code	96100	96101
G	10	12
H	16	24

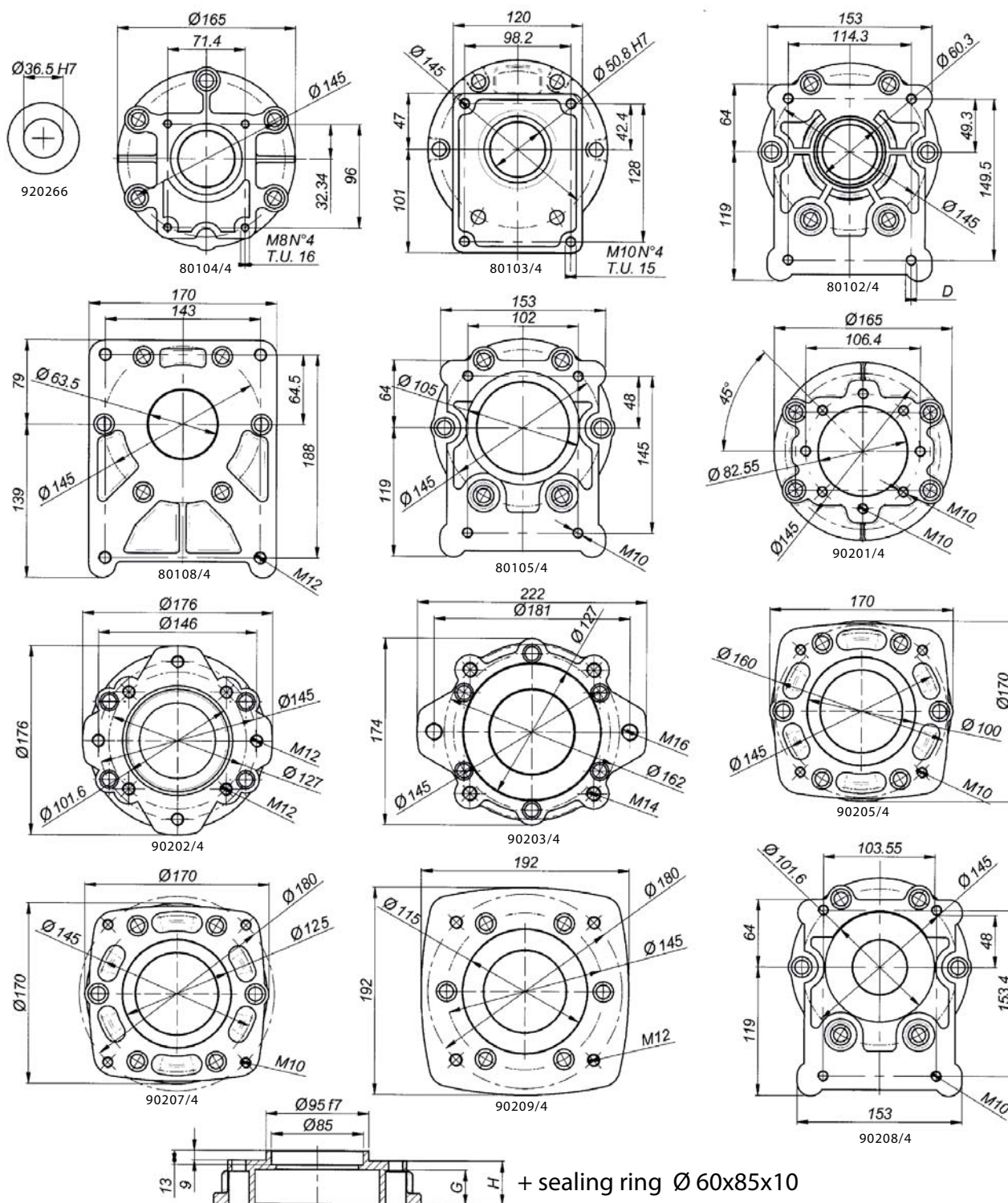
FLANGES for SPEED-UP and SPLITTER GEARBOXES

Series 80000 (Aluminium) - 90000 (Aluminium) - 93000 (Cast-iron)



	FLANGE: TYPE											
	Gr. 2	Gr. 3	Gr. 3,5	Gr. 4	Gr.3 Bosch	SAE A	SAE B	SAE C	LG 20-35	L.G. 50	L.G. 75	ULTRA SPLDOWTY
Code	80104	80103	80102	80108	80105	90201	90202	90203	90205	90207	90209	90208
G	21	22	24,5	36	12	25	12	15	20,5	33	57	10
H	21	22	24,5	36	24	25	25	28	26,5	43	72	24

FLANGES for SPLITTER GEARBOXES Series 91000 (Aluminium)



	FLANGE: TYPE											
	Gr. 2	Gr. 3	Gr. 3,5	Gr. 4	Gr. 3 Bosch	SAE A	SAE B	SAE C	LG 20-35	L.G. 50	L.G. 75	ULTRA3PLDOWTY
Code	80104/4	80103/4	80102/4	80108/4	80105/4	90201/4	90202/4	90203/4	90205/4	90207/4	90209/4	90208/4
G	21	22	24,5	36	12	25	12	15	20,5	33	57	10
H	21	22	24,5	36	24	25	25	28	26,5	43	72	24

As HANSA-TMP has a very extensive range of products and some products have a variety of applications, the information supplied may often only apply to specific situations.

If the catalogue does not supply all the information required, please contact HANSA-TMP.

In order to provide a comprehensive reply to queries we may require specific data regarding the proposed application.

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**HYDRAULIC COMPONENTS
HYDROSTATIC TRANSMISSIONS
GEARBOXES - ACCESSORIES**

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