NRW®
DRIVE TECHNOLOGIES

P-Pt/A SERIES

Shaft Mounted Helical Gear Units

GENERAL PART LIST

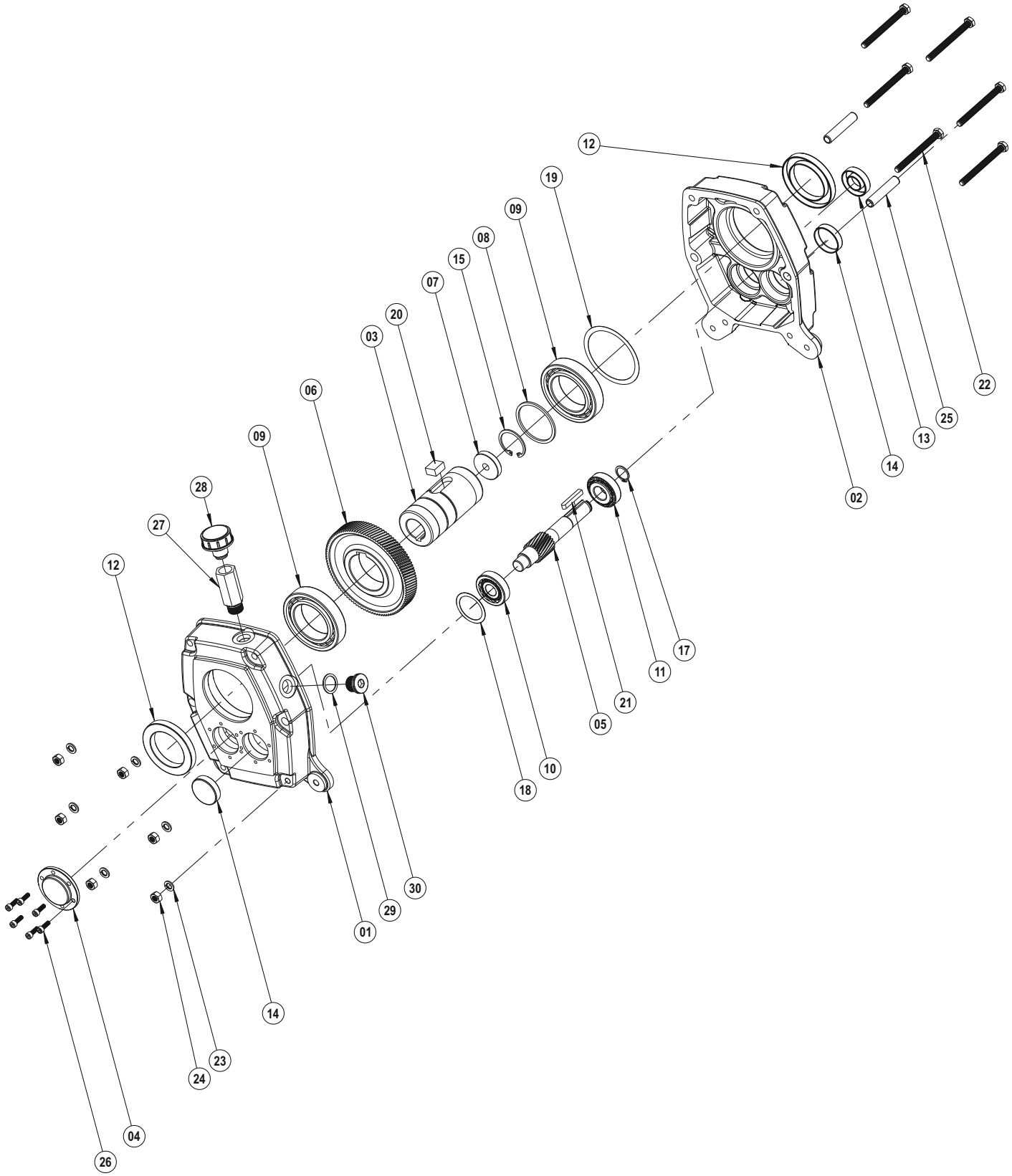
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NRW®
DRIVE TECHNOLOGIES

P SINGLE STAGE
(P1 ... P8)



P SINGLE STAGE
(P1 ... P4)

P1

01	P1 Gear Case A
02	P1 Gear Case B
03	Hollow Shaft
04	Gear Case Cover
05	Driving Pinion
06	Driving Gear
07	Puller Washer
08	Washer
09	Bearing
10	Bearing
11	Bearing
12	Oil Seal
13	Oil Seal
14	Oil Cover
15	Circlip (DIN 472)
17	Circlip (DIN 471)
18	Shim (DIN 988)
19	Shim (DIN 988)
20	Key B (DIN 6885)
21	Key AB (DIN 6885)
22	Bolt (DIN 933)
23	Washer (DIN 127)
24	Nut (DIN 934)
25	Centering Pin
26	Bolt (DIN 912)
27	Extension L
28	Vent Plug
29	Washer (DIN 7603)
30	Oil Plug (DIN 908)

P2

01	P2 Gear Case A
02	P2 Gear Case B
03	Hollow Shaft
04	Gear Case Cover
05	Driving Pinion
06	Driving Gear
07	Puller Washer
08	Washer
09	Bearing
10-11	Bearing
12	Oil Seal
13	Oil Seal
14	Oil Cover
15	Circlip (DIN 472)
17	Circlip (DIN 471)
18	Circlip (DIN 472)
19	Circlip (DIN 472)
20	Key B (DIN 6885)
21	Key AB (DIN 6885)
22	Bolt (DIN 933)
23	Washer (DIN 127)
24	Nut (DIN 934)
25	Centering Pin
26	Bolt (DIN 912)
27	Extension L
28	Vent Plug
29	Washer (DIN 7603)
30	Oil Plug (DIN 908)

P3

01	P3 Gear Case A
02	P3 Gear Case B
03	Hollow Shaft
04	Gear Case Cover
05	Driving Pinion
06	Driving Gear
07	Puller Washer
08	Washer
09	Bearing
10-11	Bearing
12	Oil Seal
13	Oil Seal
14	Oil Cover
15	Circlip (DIN 472)
17	Circlip (DIN 471)
18	Shim (DIN 988)
20	Key B (DIN 6885)
21	Key AB (DIN 6885)
22	Bolt (DIN 933)
23	Washer (DIN 127)
24	Nut (DIN 934)
25	Centering Pin
26	Bolt (DIN 912)
27	Extension L
28	Vent Plug
29	Washer (DIN 7603)
30	Oil Plug (DIN 908)

P4

01	P4 Gear Case A
02	P4 Gear Case B
03	Hollow Shaft
04	Gear Case Cover
05	Driving Pinion
06	Driving Gear
07	Puller Washer
08	Washer
09	Bearing
10-11	Bearing
12	Oil Seal
13	Oil Seal
14	Oil Cover
15	Circlip (DIN 472)
17	Circlip (DIN 471)
18	Shim (DIN 988)
20	Key B (DIN 6885)
21	Key AB (DIN 6885)
22	Bolt (DIN 933)
23	Washer (DIN 127)
24	Nut (DIN 934)
25	Centering Pin
26	Bolt (DIN 912)
27	Extension L
28	Vent Plug
29	Washer (DIN 7603)
30	Oil Plug (DIN 908)

P5

01	P5 Gear Case A
02	P5 Gear Case B
03	Hollow Shaft
04	Gear Case Cover
05	Driving Pinion
06	Driving Gear
07	Puller Washer
08	Washer
09	Bearing
10-11	Bearing
12	Oil Seal
13	Oil Seal
14	Oil Cover
15	Circlip (DIN 472)
17	Circlip (DIN 471)
18	Shim (DIN 988)
20	Key B (DIN 6885)
21	Key AB (DIN 6885)
22	Bolt (DIN 933)
23	Washer (DIN 127)
24	Nut (DIN 934)
25	Centering Pin
26	Bolt (DIN 912)
27	Extension L
28	Vent Plug
29	Washer (DIN 7603)
30	Oil Plug (DIN 908)

P6

01	P6 Gear Case A
02	P6 Gear Case B
03	Hollow Shaft
04	Gear Case Cover
05	Driving Pinion
06	Driving Gear
07	Puller Washer
08	Washer
09	Bearing
10-11	Bearing
12	Oil Seal
13	Oil Seal
14	Oil Cover
15	Circlip (DIN 472)
17	Circlip (DIN 471)
18	Shim (DIN 988)
20	Key B (DIN 6885)
21	Key AB (DIN 6885)
22	Bolt (DIN 933)
23	Washer (DIN 127)
24	Nut (DIN 934)
25	Centering Pin
26	Bolt (DIN 912)
27	Extension L
28	Vent Plug
29	Rondela (DIN 7603)
30	Oil Plug (DIN 908)

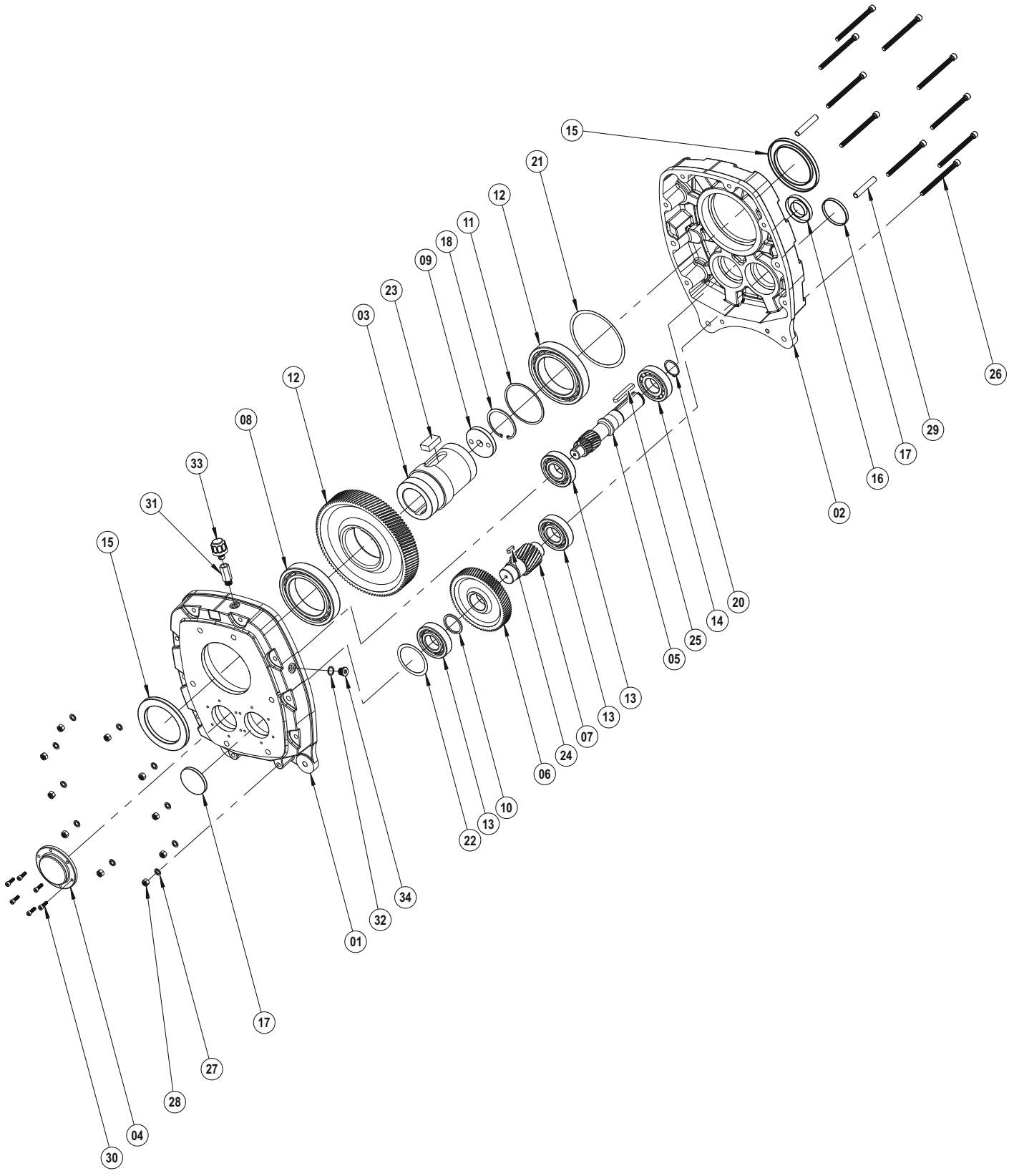
P7

01	P7 Gear Case A
02	P7 Gear Case B
03	Hollow Shaft
04	Gear Case Cover
05	Driving Pinion
06	Driving Gear
07	Puller Washer
08	Washer
09	Bearing
10-11	Bearing
12	Oil Seal
13	Oil Seal
14	Oil Cover
15	Circlip (DIN 472)
18	Shim (DIN 988)
19	Shim (DIN 988)
20	Key B (DIN 6885)
21	Key AB (DIN 6885)
22	Bolt (DIN 912)
23	Washer (DIN 127)
24	Nut (DIN 934)
25	Centering Pin
26	Bolt (DIN 912)
27	Extension L
28	Vent Plug
29	Washer (DIN 7603)
30	Oil Plug (DIN 908)

P8

01	P8 Gear Case A
02	P8 Gear Case B
03	Hollow Shaft
04	Gear Case Cover
05	Driving Pinion
06	Driving Gear
07	Puller Washer
08	Washer
09	Bearing
10-11	Bearing
12	Oil Seal
13	Oil Seal
14	Oil Cover
15	Circlip (DIN 472)
17	Circlip (DIN 471)
18	Shim (DIN 988)
20	Key B (DIN 6885)
21	Key AB (DIN 6885)
22	Bolt (DIN 912)
23	Washer (DIN 127)
24	Nut (DIN 934)
25	Centering Pin
26	Bolt (DIN 912)
27	Extension L
28	Vent Plug
29	Washer (DIN 7603)
30	Oil Plug (DIN 908)

P DOUBLE STAGE
(P1 ... P9)



P1

01	P1 Gear Case A
02	P1 Gear Case B
03	Hollow Shaft
04	Gear Case Cover
05	Driving Pinion
06	Driving Gear
07	Pinion Shaft
08	Driven Gear
09	Puller Washer
10	Spacer
11	Washer
12	Bearing
13	Bearing
14	Bearing
15	Oil Seal
16	Oil Seal
17	Oil Cover
18	Circlip (DIN 472)
20	Circlip (DIN 471)
21	Shim (DIN 988)
22	Shim (DIN 988)
23	Key B (DIN 6885)
24	Key A (DIN 6885)
25	Key AB (DIN 6885)
26	Bolt (DIN 933)
27	Washer (DIN 127)
28	Nut (DIN 934)
29	Centering Pin
30	Bolt (DIN 912)
31	Extension L
32	Washer (DIN 7603)
33	Vent Plug
34	Oil Plug (DIN 908)

P2

01	P2 Gear Case A
02	P2 Gear Case B
03	Hollow Shaft
04	Gear Case Cover
05	Driving Pinion
06	Driving Gear
07	Pinion Shaft
08	Driven Gear
09	Puller Washer
10	Washer
11	Washer
12	Bearing
13	Bearing
14	Bearing
15	Oil Seal
16	Oil Seal
17	Oil Cover
18	Circlip (DIN 472)
20	Circlip (DIN 471)
21	Shim (DIN 988)
22	Shim (DIN 988)
23	Key B (DIN 6885)
24	Key A (DIN 6885)
25	Key AB (DIN 6885)
26	Bolt (DIN 933)
27	Washer (DIN 127)
28	Nut (DIN 934)
29	Centering Pin
30	Bolt (DIN 912)
31	Extension L
32	Washer (DIN 7603)
33	Vent Plug
34	Oil Plug (DIN 908)

P3

01	P3 Gear Case A
02	P3 Gear Case B
03	Hollow Shaft
04	Gear Case Cover
05	Driving Pinion
06	Driving Gear
07	Pinion Shaft
08	Driven Gear
09	Puller Washer
10	Spacer
11	Washer
12	Bearing
13	Bearing
14	Bearing
15	Oil Seal
16	Oil Seal
17	Oil Cover
18	Circlip (DIN 472)
20	Circlip (DIN 471)
23	Key B (DIN 6885)
24	Key A (DIN 6885)
25	Key AB (DIN 6885)
26	Bolt (DIN 933)
27	Washer (DIN 127)
28	Nut (DIN 934)
29	Centering Pin
30	Bolt (DIN 912)
31	Extension L
32	Washer (DIN 7603)
33	Vent Plug
34	Oil Plug (DIN 908)

P4

01	P4 Gear Case A
02	P4 Gear Case B
03	Hollow Shaft
04	Gear Case Cover
05	Driving Pinion
06	Driving Gear
07	Pinion Shaft
08	Driven Gear
09	Puller Washer
10	Spacer
11	Washer
12	Bearing
13	Bearing
14	Bearing
15	Oil Seal
16	Oil Seal
17	Oil Cover
18	Circlip (DIN 472)
20	Circlip (DIN 471)
23	Key B (DIN 6885)
24	Key A (DIN 6885)
25	Key AB (DIN 6885)
26	Bolt (DIN 933)
27	Washer (DIN 127)
28	Nut (DIN 934)
29	Centering Pin
30	Bolt (DIN 912)
31	Extension L
32	Washer (DIN 7603)
33	Vent Plug
34	Oil Plug (DIN 908)

P DOUBLE STAGE
(P5 ... P9)

P5

01 P5 Gear Case A
02 P5 Gear Case B
03 Hollow Shaft
04 Gear Case Cover
05 Driving Pinion
06 Driving Gear
07 Pinion Shaft
08 Driven Gear
09 Puller Washer
10 Spacer
11 Washer
12 Bearing
13 Bearing
14 Bearing
15 Oil Seal
16 Oil Seal
17 Oil Cover
18 Circlip (DIN 472)
20 Circlip (DIN 471)
23 Key B (DIN 6885)
24 Key A (DIN 6885)
25 Key AB (DIN 6885)
26 Bolt (DIN 933)
27 Washer (DIN 127)
28 Nut (DIN 934)
29 Centering Pin
30 Bolt (DIN 912)
31 Extension L
32 Washer (DIN 7603)
33 Vent Plug
34 Oil Plug (DIN 908)

P6

01 P6 Gear Case A
02 P6 Gear Case B
03 Hollow Shaft
04 Gear Case Cover
05 Driving Pinion
06 Driving Gear
07 Pinion Shaft
08 Driven Gear
09 Puller Washer
10 Washer
11 Washer
12 Bearing
13 Bearing
14 Bearing
15 Oil Seal
16 Oil Seal
17 Oil Cover
18 Circlip (DIN 472)
20 Circlip (DIN 471)
22 Shim (DIN 988)
23 Key B (DIN 6885)
24 Key A (DIN 6885)
25 Key AB (DIN 6885)
26 Bolt (DIN 933)
27 Washer (DIN 127)
28 Nut (DIN 934)
29 Centering Pin
30 Bolt (DIN 912)
31 Extension L
32 Washer (DIN 7603)
33 Vent Plug
34 Oil Plug (DIN 908)

P7

01 P7 Gear Case A
02 P7 Gear Case B
03 Hollow Shaft
04 Gear Case Cover
05 Driving Pinion
06 Driving Gear
07 Pinion Shaft
08 Driven Gear
09 Puller Washer
10 Washer
11 Washer
12 Bearing
13 Bearing
14 Bearing
15 Oil Seal
16 Oil Seal
17 Oil Cover
18 Circlip (DIN 472)
20 Circlip (DIN 471)
21 Shim (DIN 988)
22 Shim (DIN 988)
23 Key B (DIN 6885)
24 Key A (DIN 6885)
25 Key AB (DIN 6885)
26 Bolt (DIN 933)
27 Washer (DIN 127)
28 Nut (DIN 934)
29 Centering Pin
30 Bolt (DIN 912)
31 Extension L
32 Washer (DIN 7603)
33 Vent Plug
34 Oil Plug (DIN 908)

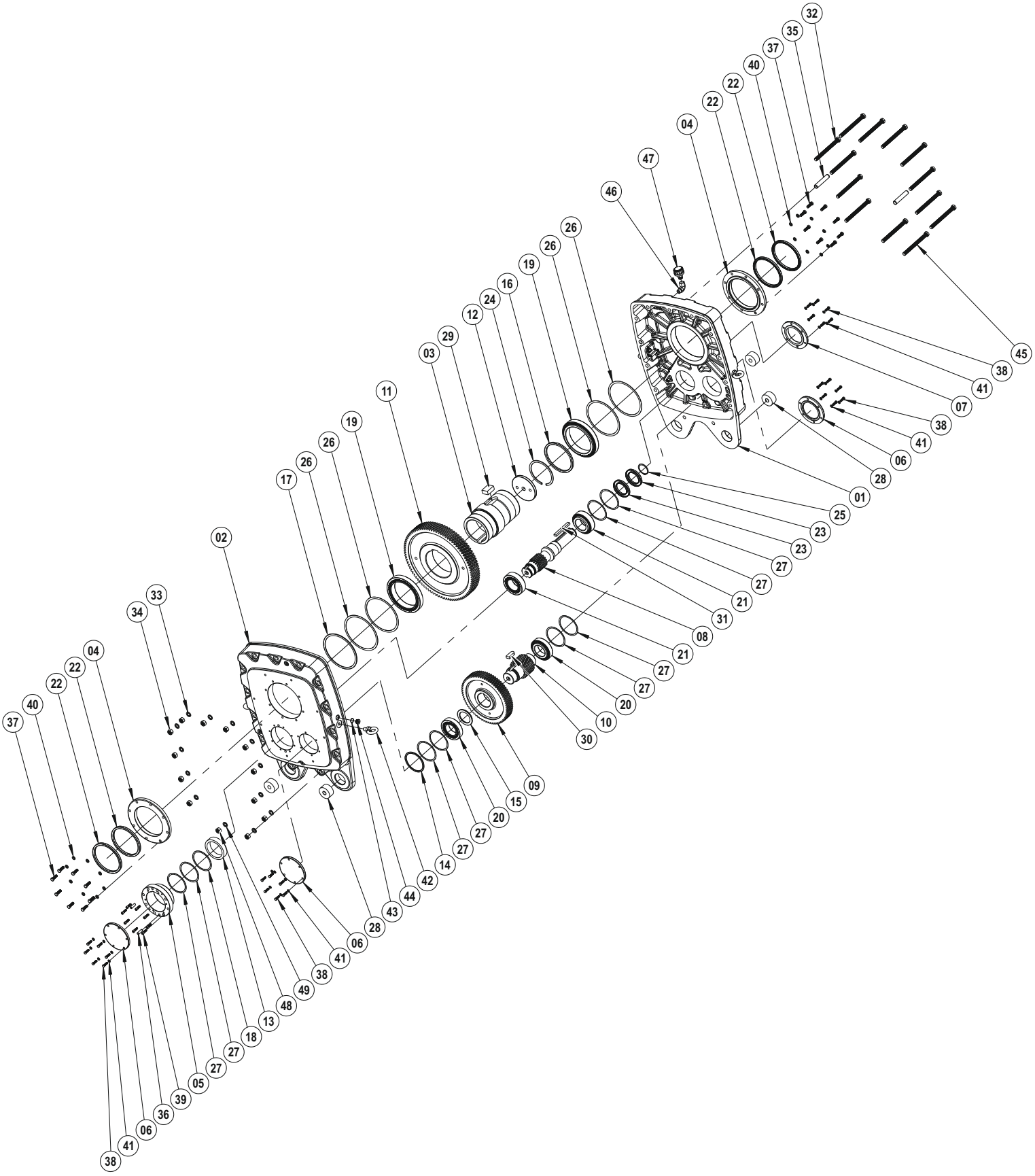
P8

01 P8 Gear Case A
02 P8 Gear Case B
03 Hollow Shaft
04 Gear Case Cover
05 Driving Pinion
06 Driving Gear
07 Pinion Shaft
08 Driven Gear
09 Puller Washer
10 Washer
11 Washer
12 Bearing
13 Bearing
14 Bearing
15 Oil Seal
16 Oil Seal
17 Oil Cover
18 Circlip (DIN 472)
20 Circlip (DIN 471)
22 Shim (DIN 988)
23 Key B (DIN 6885)
24 Key A (DIN 6885)
25 Key AB (DIN 6885)
26 Bolt (DIN 912)
27 Washer (DIN 127)
28 Nut (DIN 934)
29 Centering Pin
30 Bolt (DIN 912)
31 Extension L
32 Washer (DIN 7603)
33 Vent Plug
34 Oil Plug (DIN 908)

P9

01 P9 Gear Case A
02 P9 Gear Case B
03 Hollow Shaft
04 Gear Case Cover
05 Driving Pinion
06 Driving Gear
07 Pinion Shaft
08 Driven Gear
09 Puller Washer
12 Bearing
13 Bearing
15 Oil Seal
16 Oil Seal
17 Oil Cover
18 Circlip (DIN 472)
20 Circlip (DIN 471)
22 Shim (DIN 988)
23 Key B (DIN 6885)
24 Key B (DIN 6885)
25 Key B (DIN 6885)
26 Bolt (DIN 933)
27 Washer (DIN 127)
28 Nut (DIN 934)
29 Centering Pin
30 Bolt (DIN 912)
31 Extension L
32 Washer (DIN 7603)
33 Vent Plug
34 Oil Plug (DIN 908)

P DOUBLE STAGE
(P10 ... P12)



P DOUBLE STAGE
(P10 ... P12)

P10

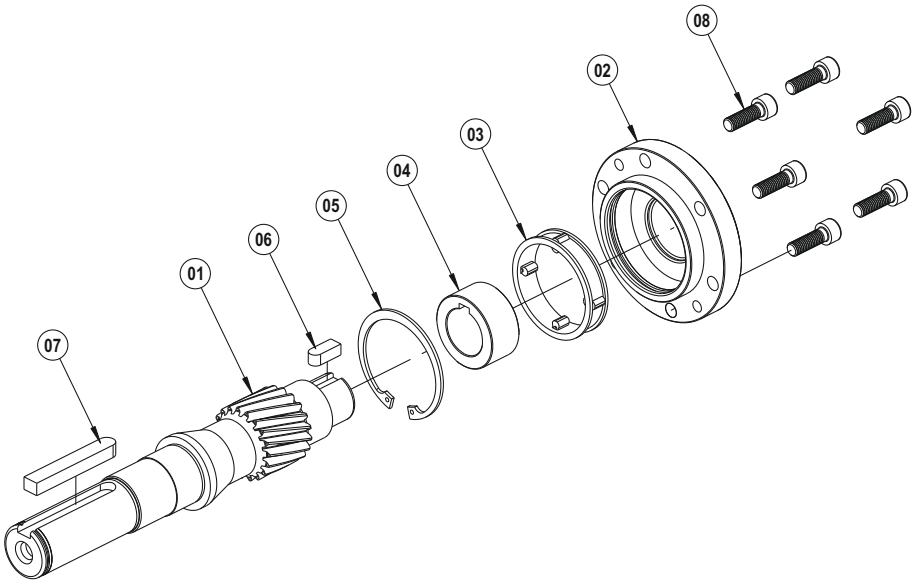
01	P10 Gear Case B
02	P10 Gear Case A
03	Hollow Shaft
04	Oil Seal Cover
05	Backstop Inner Cage
06	Gear Case Cover
07	Gear Case Cover
08	Driving Pinion
09	Driving Gear
10	Pinion Shaft
11	Driven Gear
12	Puller Washer
13	Spacer
14	Spacer
16	Spacer
19	Bearing
20	Bearing
21	Bearing
22	Oil Seal
23	Oil Seal
24	Circlip (DIN 472)
25	Circlip (DIN 471)
29	Key B (DIN 6885)
30	Key AB (DIN 6885)
31	Key B (DIN 6885)
32	Bolt (DIN 933)
33	Washer (DIN 127)
34	Nut (DIN 934)
35	Centering Pin
36	Pin
37	Bolt (DIN 933)
38	Bolt (DIN 933)
39	Bolt (DIN 912)
40	Washer (DIN 127)
41	Washer (DIN 127)
43	Washer (DIN 7603)
44	Oil Plug (DIN 908)
45	Bolt (DIN 933)
46	Поддержка
47	Vent Plug
48	Washer (DIN 127)
49	Nut (DIN 934)

P 11

01	P11 Gear Case B
02	P11 Gear Case A
03	Hollow Shaft
04	Oil Seal Cover
05	Backstop Inner Cage
06	Gear Case Cover
07	Gear Case Cover
08	Driving Pinion
09	Driving Gear
10	Pinion Shaft
11	Driven Gear
12	Puller Washer
13	Spacer
15	Washer
16	Spacer
19	Bearing
20	Bearing
21	Bearing
22	Oil Seal
23	Oil Seal
24	Circlip (DIN 472)
27	Shim (DIN 988)
28	Rubber Buffer
29	Key B (DIN 6885)
30	Key B (DIN 6885)
31	Key AB (DIN 6885)
32	Bolt (DIN 933)
33	Washer (DIN 127)
34	Nut (DIN 934)
35	Centering Pin
36	Pin
38	Bolt (DIN 912)
37-38	Bolt (DIN 933)
40-41	Washer (DIN 127)
42	Eye Bolt (DIN 580)
43	Washer (DIN 7603)
44	Oil Plug (DIN 908)
46	Поддержка
47	Vent Plug

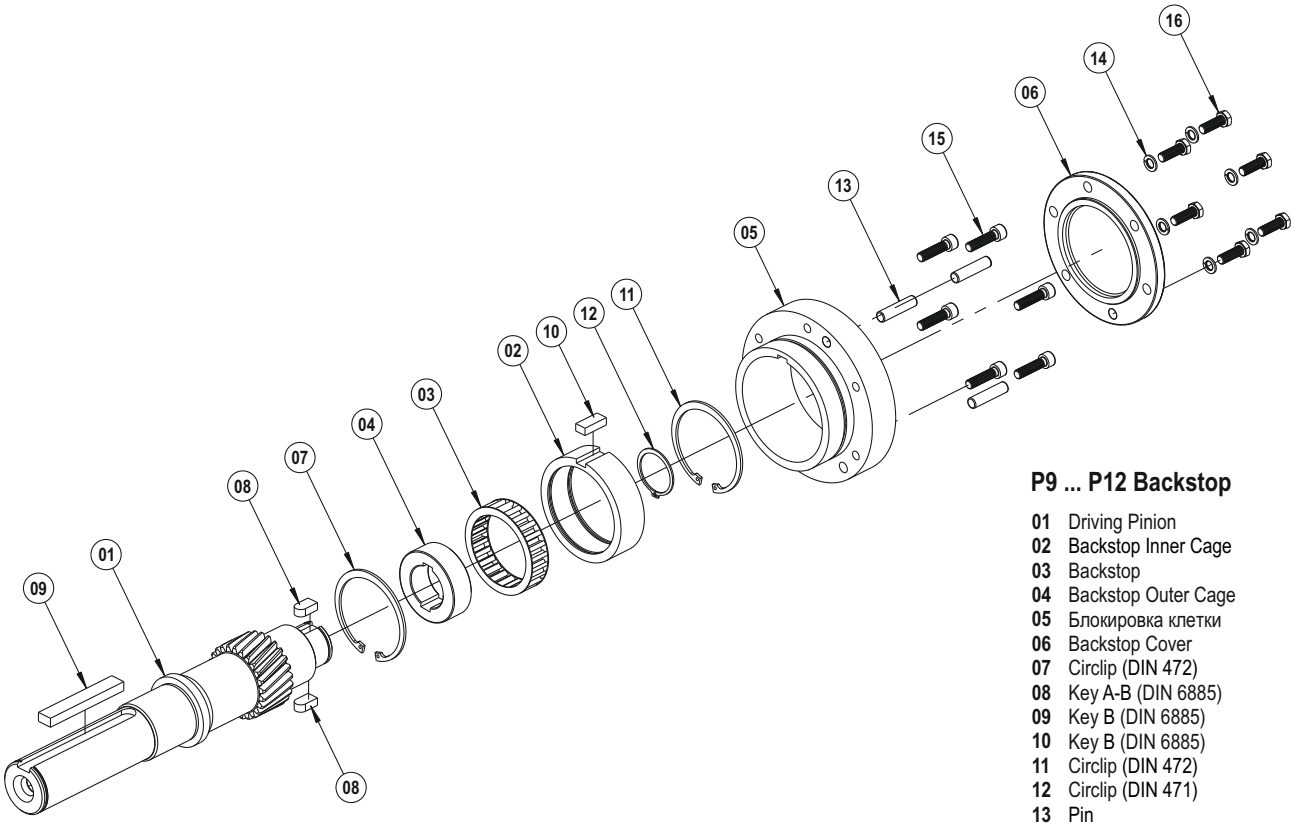
P 12

01	P12 Gear Case B
02	P12 Gear Case A
03	Hollow Shaft
04	Oil Seal Cover
05	Backstop Inner Cage
06	Gear Case Cover
07	Gear Case Cover
08	Driving Pinion
09	Driving Gear
10	Pinion Shaft
11	Driven Gear
12	Puller Washer
13	Spacer
14	Spacer
15	Spacer
16	Spacer
17	Washer
18	Washer
19	Bearing
20	Bearing
21	Bearing
22	Oil Seal
23	Oil Seal
24	Circlip (DIN 472)
25	Circlip (DIN 471)
26	Shim (DIN 988)
27	Shim (DIN 988)
28	Rubber Buffer
29	Key (DIN 6885)
30	Key (DIN 6885)
31	Key (DIN 6885)
32	Bolt (DIN 933)
33	Washer (DIN 127)
34	Nut (DIN 934)
35	Centering Pin
36	Pin
37	Bolt (DIN 933)
38	Bolt (DIN 933)
39	Bolt (DIN 912)
40	Washer (DIN 127)
41	Washer (DIN 127)
42	Eye Bolt (DIN 580)
43	Washer (DIN 7603)
44	Oil Plug (DIN 908)
46	Поддержка
47	Vent Plug



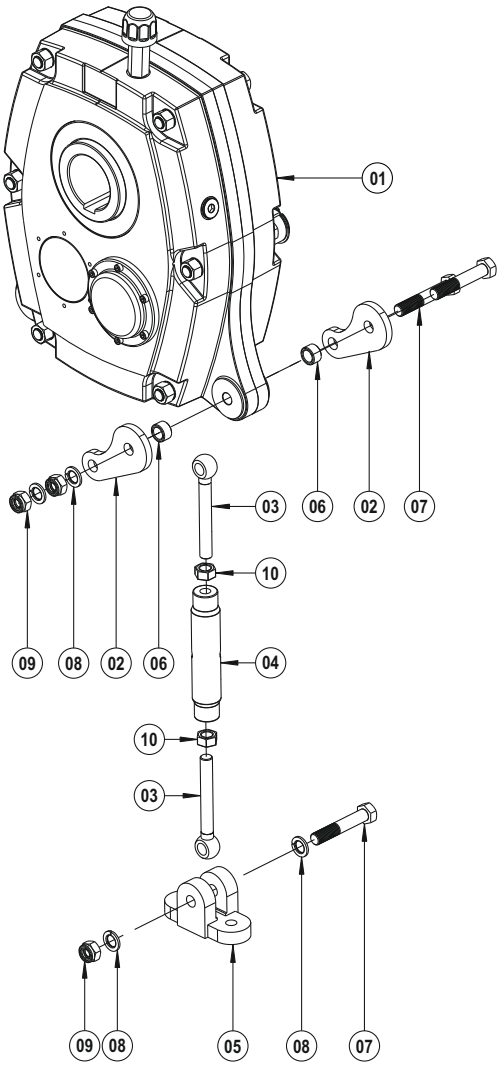
P1 ... P9 Backstop

01 Driving Pinion
02 Backstop Cover
03 Backstop
04 Backstop Outer Cage
05 Circlip (DIN 472)
06 Key A-B (DIN 6885)
07 Key A-B (DIN 6885)
08 Bolt (DIN 912)



P9 ... P12 Backstop

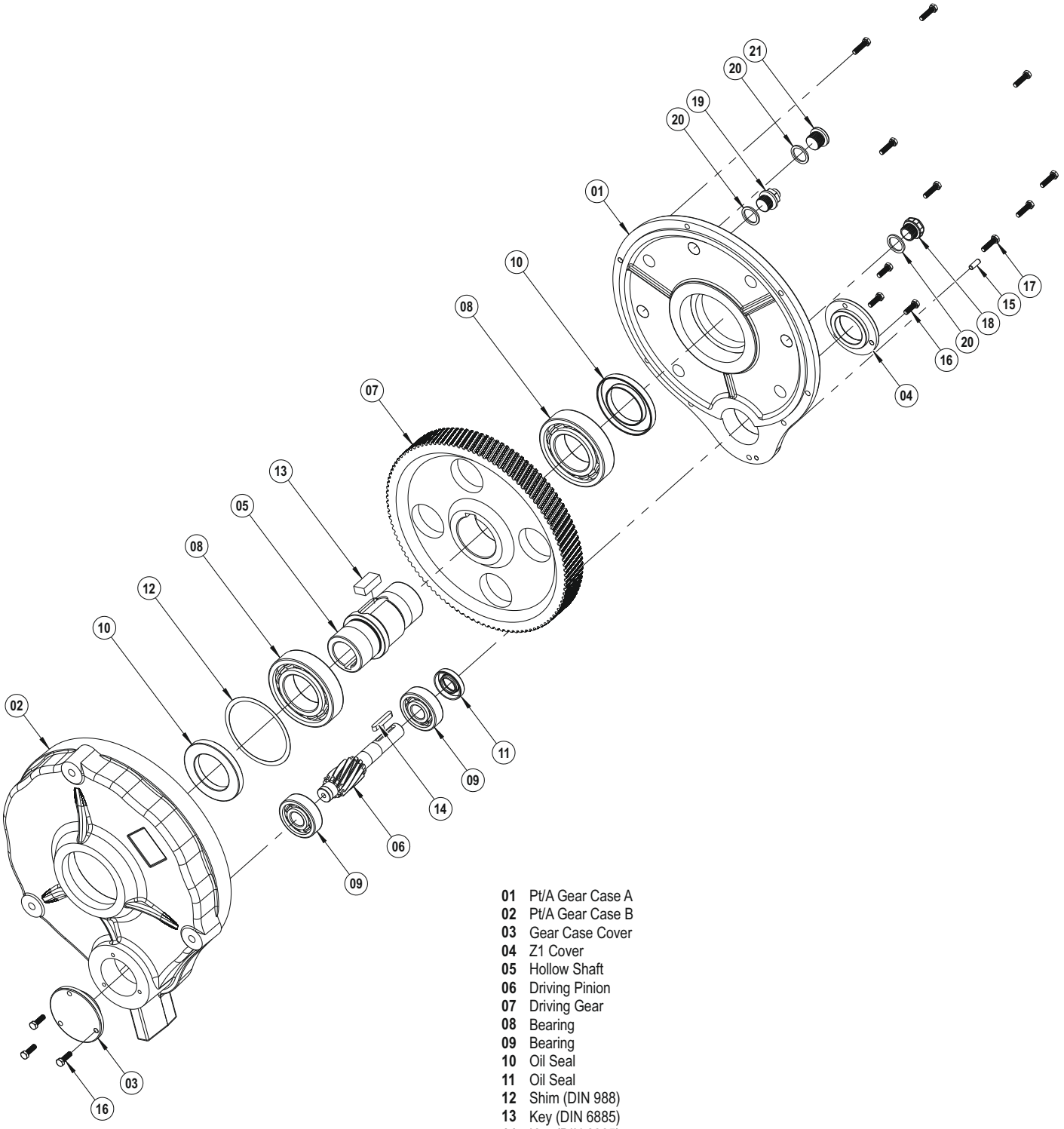
01 Driving Pinion
02 Backstop Inner Cage
03 Backstop
04 Backstop Outer Cage
05 Блокировка клетки
06 Backstop Cover
07 Circlip (DIN 472)
08 Key A-B (DIN 6885)
09 Key B (DIN 6885)
10 Key B (DIN 6885)
11 Circlip (DIN 472)
12 Circlip (DIN 471)
13 Pin
14 Washer (DIN 127)
15 Bolt (DIN 912)
16 Bolt (DIN 933)



Torque Arm

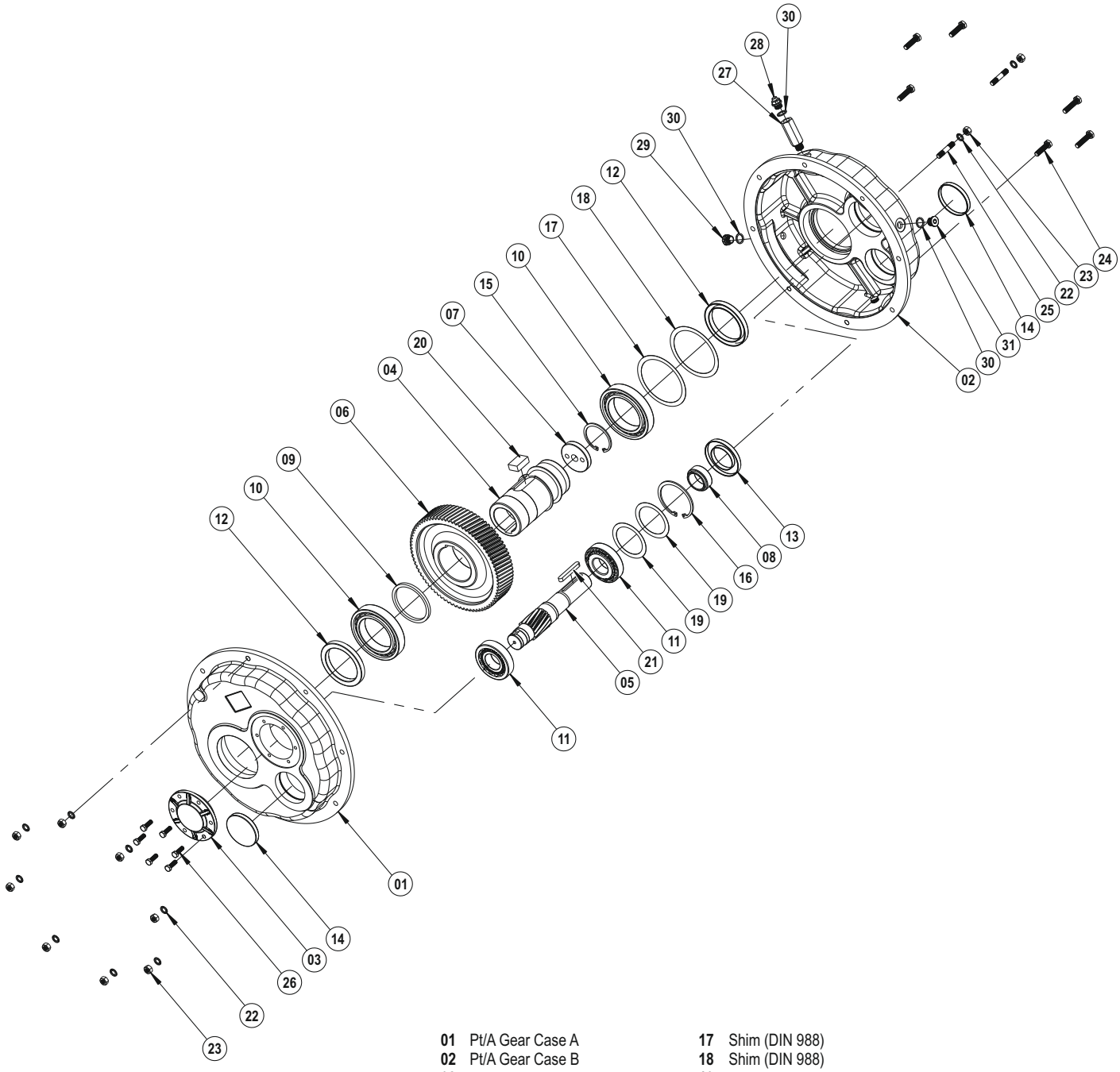
01 Gear Case
02 Torque Arm Plate
03 Натяжной болт
04 Натяжитель
05 Фиксирующая лапка
06 Втулка силового плеча
07 Bolt (DIN 933)
08 Washer (DIN 127)
09 Nut (DIN 985)
10 Nut (DIN 934)

Pt/A 30 SINGLE STAGE



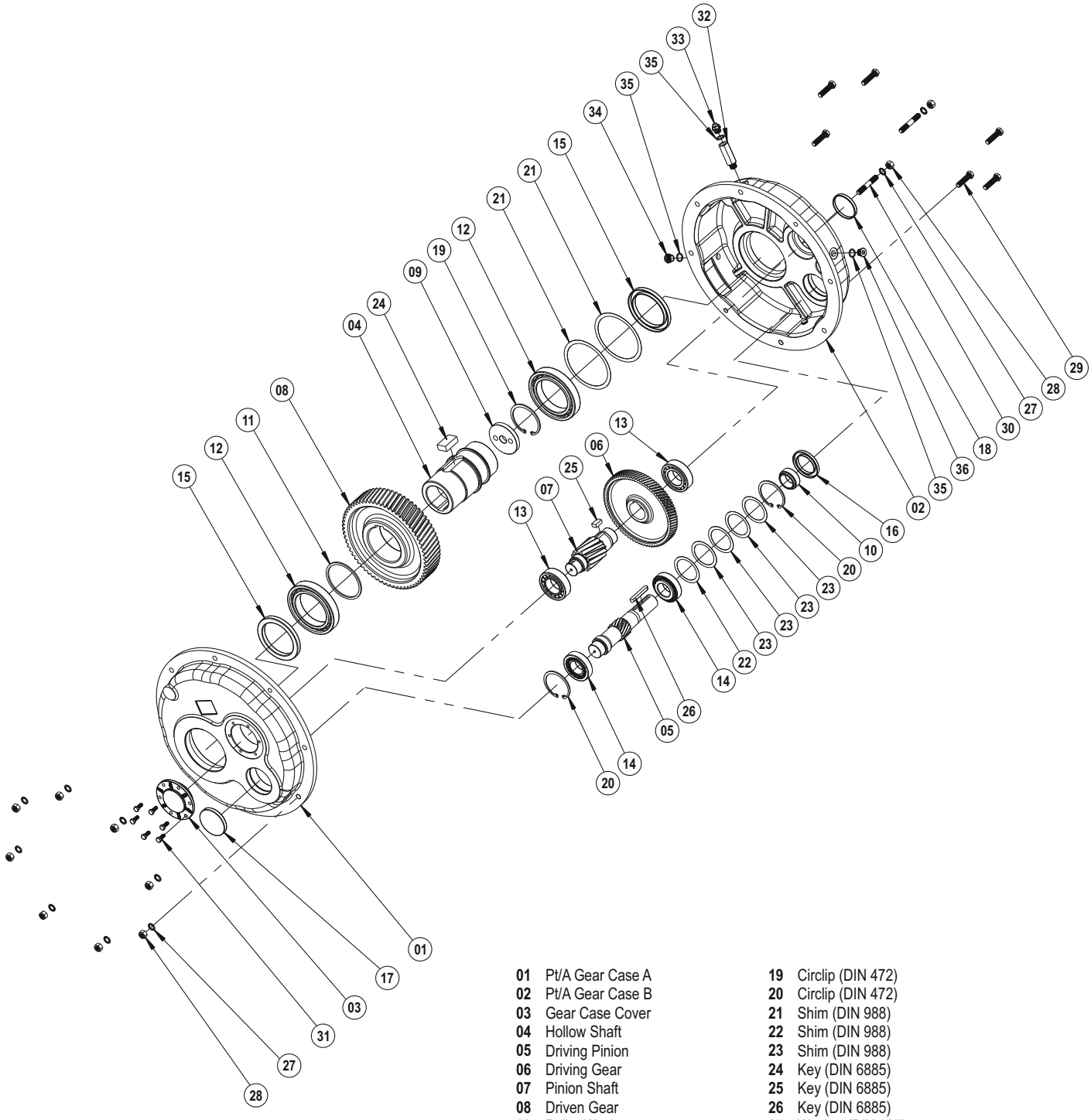
01 Pt/A Gear Case A
02 Pt/A Gear Case B
03 Gear Case Cover
04 Z1 Cover
05 Hollow Shaft
06 Driving Pinion
07 Driving Gear
08 Bearing
09 Bearing
10 Oil Seal
11 Oil Seal
12 Shim (DIN 988)
13 Key (DIN 6885)
14 Key (DIN 6885)
15 Pin
16 Bolt (DIN 933)
17 Bolt (DIN 933)
18 Oil Level Plug
19 Vent Plug
20 Washer (DIN 7603)
21 Oil Plug (DIN 908)

Pt/A SINGLE STAGE (35 ... 125)



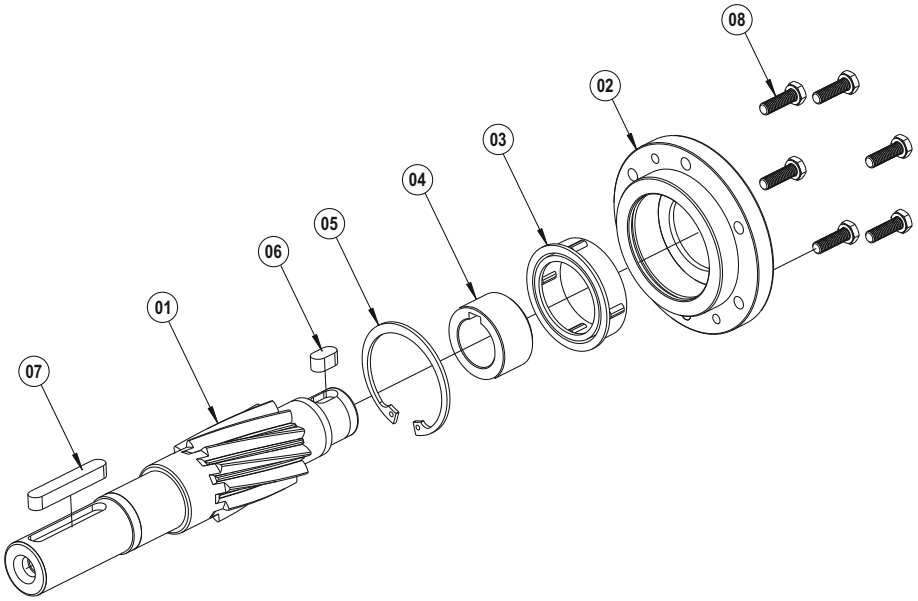
01	Pt/A Gear Case A	**17**	Shim (DIN 988)
02	Pt/A Gear Case B	**18**	Shim (DIN 988)
03	Gear Case Cover	**19**	Shim (DIN 988)
04	Hollow Shaft	**20**	Key (DIN 6885)
05	Driving Pinion	**21**	Key (DIN 6885)
06	Driving Gear	**22**	Washer (DIN 127)
07	Puller Washer	**23**	Nut (DIN 934)
08	Spacer	**24**	Bolt (DIN 933)
09	Washer	**25**	Stud Bolt (DIN 939)
10	Bearing	**26**	Bolt (DIN 933)
11	Bearing	**27**	Extension L
12	Oil Seal	**28**	Vent Plug
13	Oil Seal	**29**	Oil Level Plug
14	Oil Cover	**30**	Washer (DIN 7603)
15	Circlip (DIN 472)	**31**	Oil Plug (DIN 908)
16	Circlip (DIN 472)		

Pt/A DOUBLE STAGE (35 ... 125)



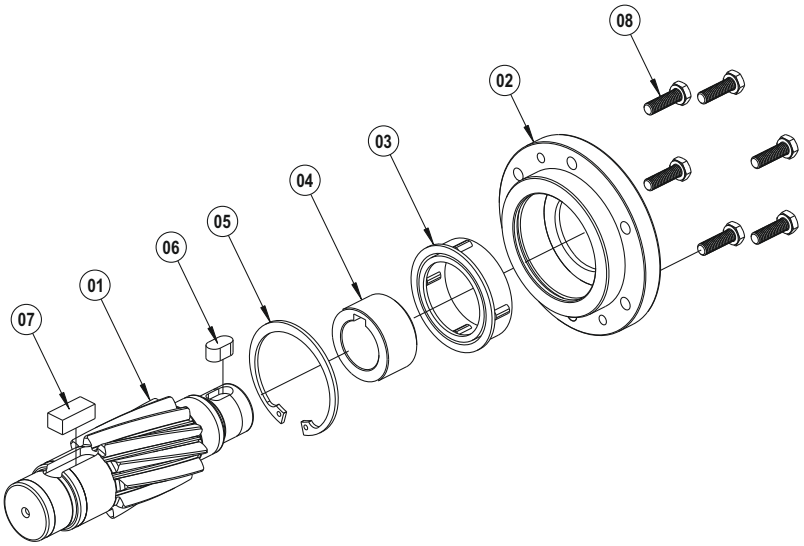
01	Pt/A Gear Case A	19	Circlip (DIN 472)
02	Pt/A Gear Case B	20	Circlip (DIN 472)
03	Gear Case Cover	21	Shim (DIN 988)
04	Hollow Shaft	22	Shim (DIN 988)
05	Driving Pinion	23	Shim (DIN 988)
06	Driving Gear	24	Key (DIN 6885)
07	Pinion Shaft	25	Key (DIN 6885)
08	Driven Gear	26	Key (DIN 6885)
09	Puller Washer	27	Washer (DIN 127)
10	Spacer	28	Nut (DIN 934)
11	Washer	29	Bolt (DIN 933)
12	Bearing	30	Stud Bolt (DIN 939)
13	Bearing	31	Bolt (DIN 933)
14	Bearing	32	Extension L
15	Oil Seal	33	Vent Plug
16	Oil Seal	34	Oil Level Plug
17	Oil Cover	35	Washer (DIN 7603)
18	Oil Cover	36	Oil Plug (DIN 908)

Pt/A BACKSTOP



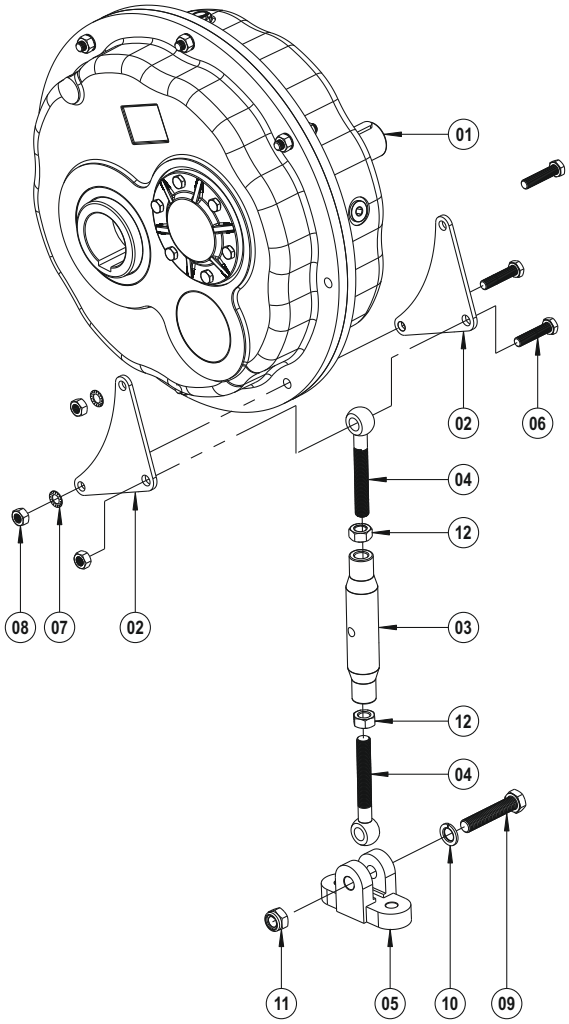
Pt/A Single Stage

01 Driving Pinion
02 Backstop Inner Cage
03 Backstop
04 Backstop Outer Cage
05 Circlip (DIN 472)
06 Key A (DIN 6885)
07 Key A (DIN 6885)
08 Bolt (DIN 933)



Pt/A Double Stage

01 Driving Pinion
02 Backstop Cover
03 Backstop
04 Backstop Outer Cage
05 Circlip (DIN 472)
06 Key A (DIN 6885)
07 Key B (DIN 6885)
08 Bolt (DIN 912)



Torque Arm

01 Gear Case
02 Torque Arm
03 Натяжитель
04 Натяжной болт
05 Фиксирующая лапка
06 Bolt (DIN 933)
07 Washer (DIN 127)
08 Nut (DIN 934)
09 Bolt (DIN 933)
10 Washer (DIN 127)
11 Nut (DIN 985)
12 Nut (DIN 934)

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