



NOVA ROTORS srl

Progressing cavity pumps

PARTI DI RICAMBIO / SPARE PARTS
PROGRESSING CAVITY PUMPS

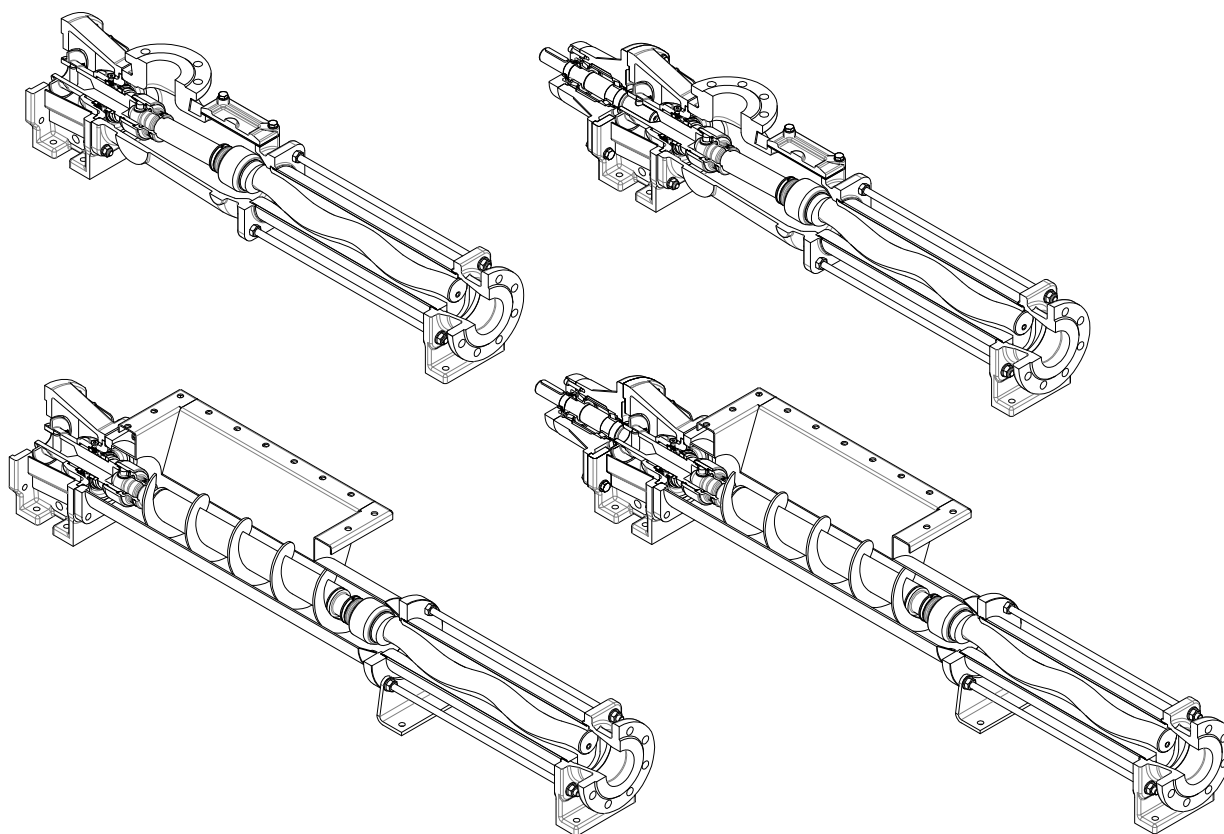
SERIES :



DIAMOND

CONSTRUCTION TYPE :

DN / JN
DH / JH

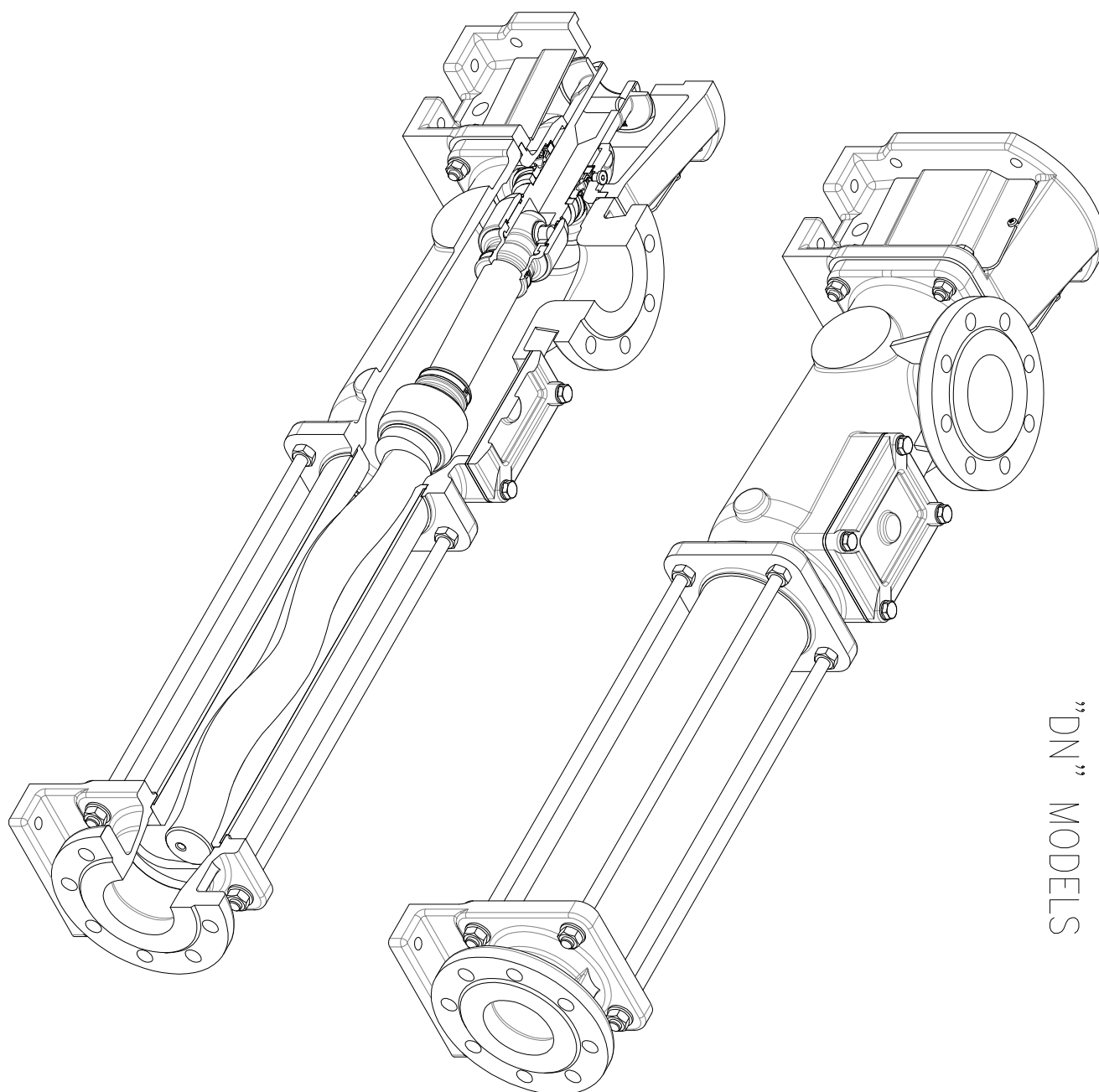


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1 SPARE PARTS

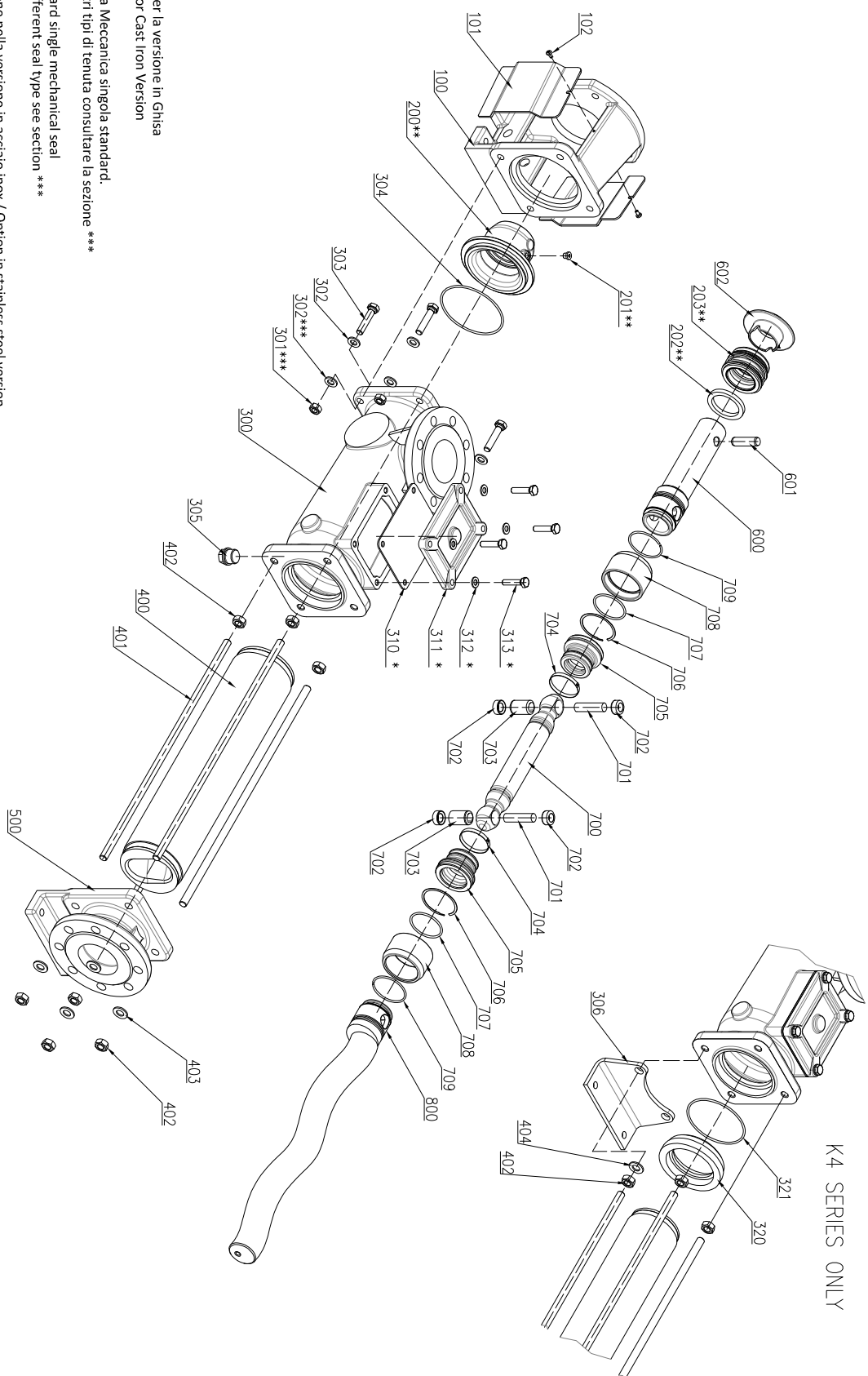
1.1 Pump parts

technical drawings "DN" L1 / K2 / K4 SERIES



"DN" MODELS

“DN” L1 / L2 / K4 SERIES



- ** Solo per la versione in Ghisa
Only for Cast Iron Version
- ** Tenuta Meccanica singola standard.
Per altri tipi di tenuta consultare la sezione ***
- * Standard single mechanical seal
For different seal type see section ***
- * Opzione nella versione in acciaio inox / Option in stainless steel version

SPARE PARTS LIST "DN" L1 / K2 / K4 SERIES
KEY

R = RECOMMENDED REPLACEMENT FOR HIGH WEAR PART

r = RECOMMENDED REPLACEMENT FOR PART NOT SUBJECT TO WEAR OR HIGH WEAR

POS.	Qty	Description	NOTES
100	1	COUPLING FLANGE	
101	2	CLOSE COUPLED ARRANGEMENT PROTECTION	
102	1	CHEESE HEAD SCREW	
200	1	SEAL HOUSING	S
201	1	THREADED PLUG	S
202	1	SEAL RING	S
203	1	MECHANICAL SEAL (STATIONARY PART + ROTATING PART)	R S
300	1	PUMP BODY	
301	4*	HEX NUT	5
302	8*	WASHER	6
303	4	HEXAGONAL HEAD SCREW	
304	1	O – RING	R
305	1	THREADED PLUG	
306	1	FOOT	3
310	1	PUMP BODY COVER GASKET	
311	1	PUMP BODY COVER	
312	4*	WASHER	4
313	4*	HEXAGONAL HEAD SCREW	4
320	1	STATOR ADAPTER RING	3
321	1	O – RING	R 3
400	1	STATOR	R
401	4	TIE ROD	
402	8	HEX NUT	
403	4	WASHER	
404	2	WASHER	3
500	1	OUTLET FLANGE	
600	1	HOLLOW SHAFT	R 1
601	1	COUPLING PIN	r
602	1	SPLASH RING	r
700	1	DRIVE SHAFT	r 2
701	2	PIN	R
702	4	GUIDE BUSH	R
703	2	TRANSMISSION BUSH	R 2
704	2	CLAMP	R
705	2	SLEEVE	R
706	2	SPIRAL RETAINING RING	r
707	2	O – RING	R
708	2	JOINT COVER	r
709	2	RETAINING RING WIRE	R
800	1	ROTOR	R

1 WEAR OF THE HOLLOW SHAFT DEPENDS ON THE TYPE OF SEAL INSTALLED ON THE PUMP

2 WE RECOMMEND ORDERING THE DRIVE SHAFT (700) AND TRANSMISSION BUSH (703) PREASSEMBLED BY NOVA ROTORS (KIT 700/703). FOR TOOLS AND PROCEDURES NECESSARY FOR ASSEMBLY SEE THE SECTION ON JOINT ASSEMBLY/DISASSEMBLY

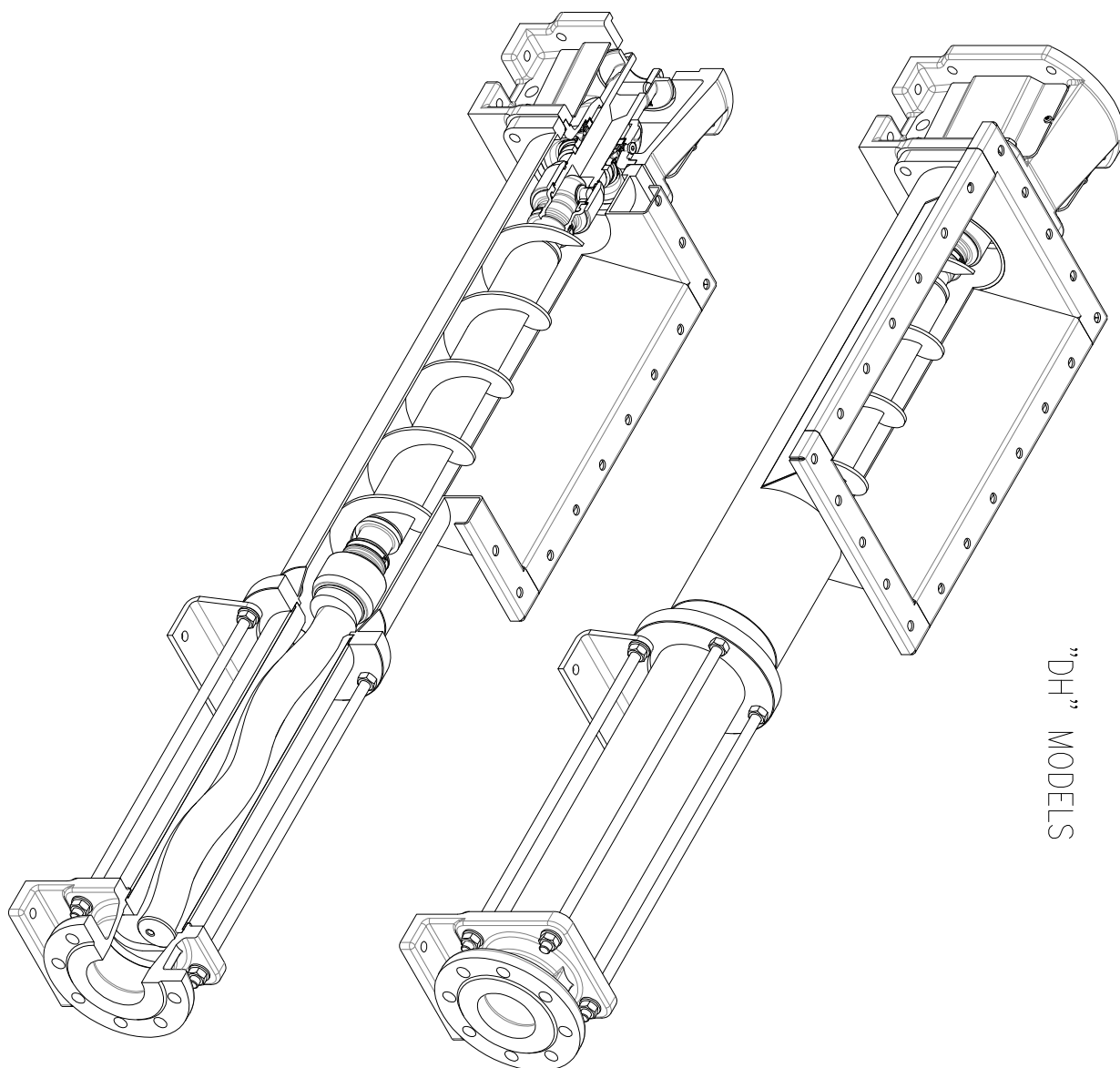
3 ONLY SERIES K4

4 *6 FOR SIZE 300: 80L1 - 40K2 - 20K4 - 120L1 - 60K2

5 ONLY CAST IRON VERSION

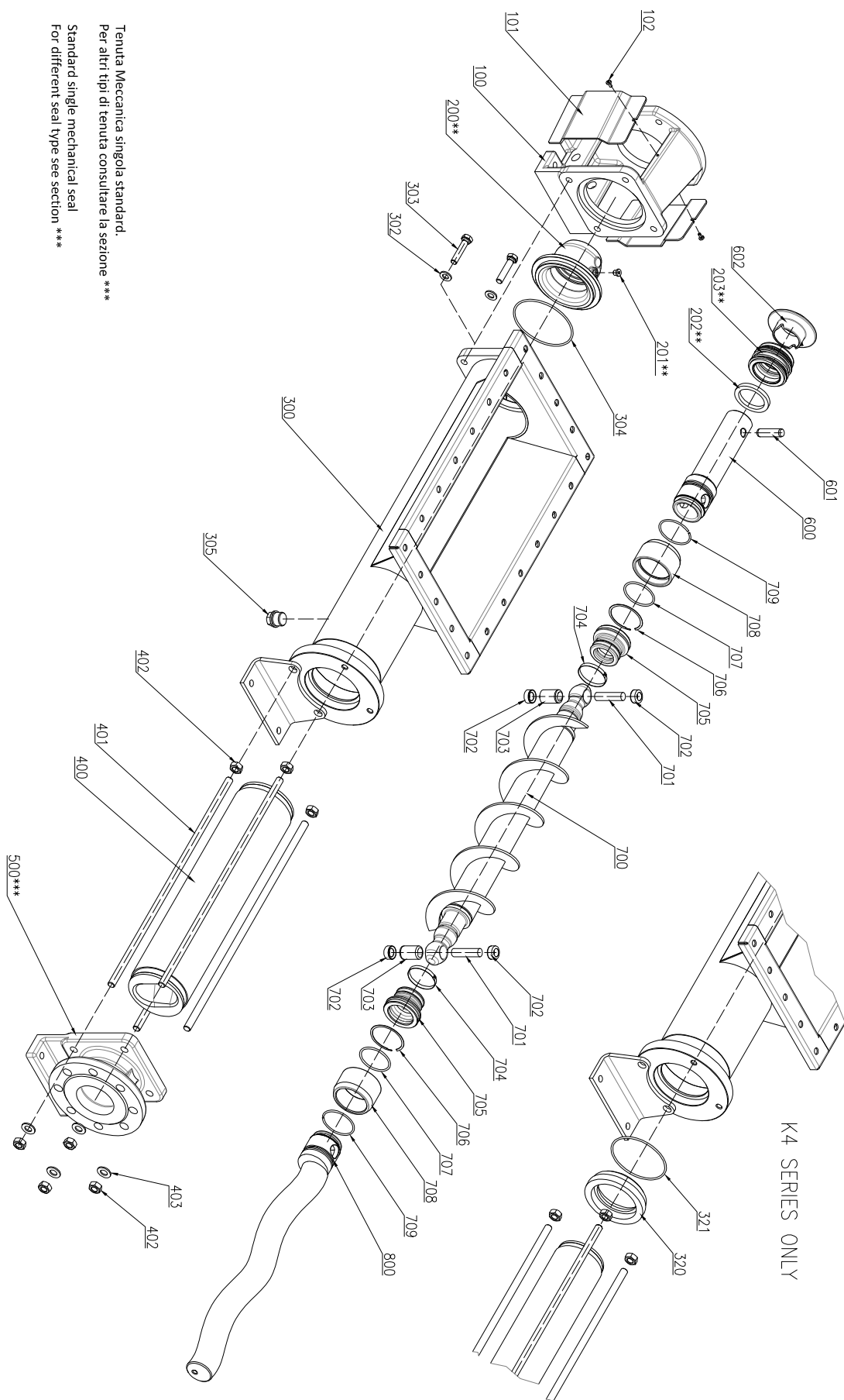
6 *4 FOR THE CAST IRON VERSION

S PARTS BELONGING TO THE SEAL UNIT. FOR TYPES OTHER THAN THE SINGLE MECHANICAL SEAL G0K9 SEE SECTION ON SEALS



"DH" MODELS

"DH" L1 / L2 / K4 SERIES



** Tenuta Meccanica singola standard.
Per altri tipi di tenuta consultare la sezione ***
Standard single mechanical seal
For different seal type see section ***

SPARE PARTS LIST "DH" L1 / K2 / K4 SERIES

KEY

R = RECOMMENDED REPLACEMENT FOR HIGH WEAR PART

r = RECOMMENDED REPLACEMENT FOR PART NOT SUBJECT TO WEAR OR HIGH WEAR

POS.	Qty	Description	NOTES
100	1	COUPLING FLANGE	
101	2	CLOSE COUPLED ARRANGEMENT PROTECTION	
102	1	CHEESE HEAD SCREW	
200	1	SEAL HOUSING	S
201	1	THREADED PLUG	S
202	1	SEAL RING	S
203	1	MECHANICAL SEAL (STATIONARY PART + ROTATING PART)	R S
300	1	PUMP BODY	
302	4	WASHER	
303	4	HEXAGONAL HEAD SCREW	
304	1	O-RING	R
305	1	THREADED PLUG	
320	1	STATOR ADAPTER RING	3
321	1	O-RING	R 3
400	1	STATOR	R
401	4	TIE ROD	
402	8	HEX NUT	
403	4	WASHER	
404	2	WASHER	3
500	1	OUTLET FLANGE	
600	1	HOLLOW SHAFT	R 1
601	1	COUPLING PIN	r
602	1	SPLASH RING	r
700	1	DRIVE SHAFT	R 2
701	2	PIN	R
702	4	GUIDE BUSH	R
703	2	TRANSMISSION BUSH	R 2
704	2	CLAMP	R
705	2	SLEEVE	R
706	2	SPIRAL RETAINING RING	r
707	2	O-RING	R
708	2	JOINT COVER	r
709	2	RETAINING RING WIRE	R
800	1	ROTOR	R

1 WEAR OF THE HOLLOW SHAFT DEPENDS ON THE TYPE OF SEAL INSTALLED ON THE PUMP

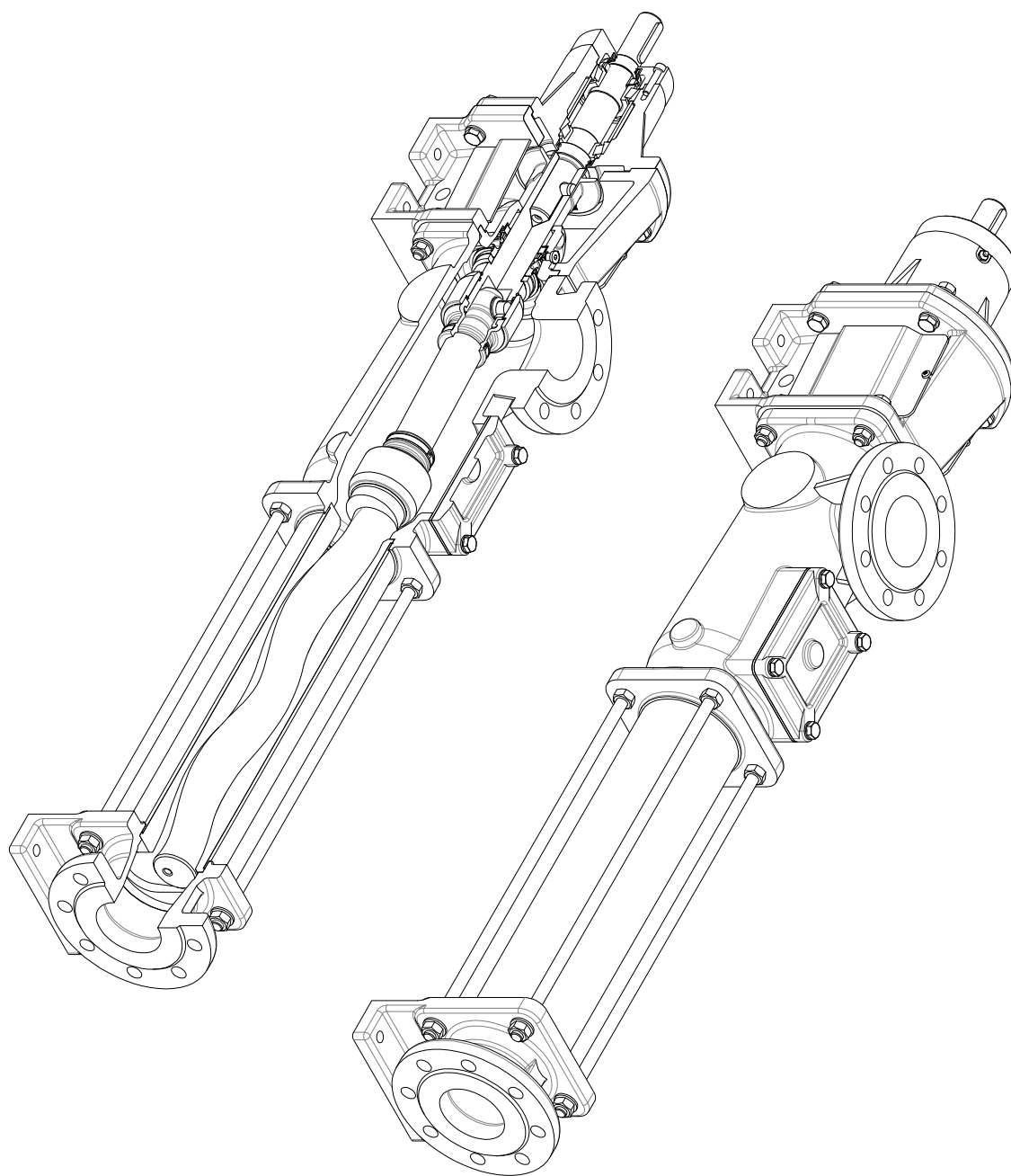
2 WE RECOMMEND ORDERING THE DRIVE SHAFT (700) AND TRANSMISSION BUSH (703) PREASSEMBLED BY NOVA ROTORS (KIT 700/703). FOR TOOLS AND PROCEDURES NECESSARY FOR ASSEMBLY SEE THE SECTION ON JOINT ASSEMBLY/DISASSEMBLY

3 ONLY SERIES K4

S PARTS BELONGING TO THE SEAL UNIT. FOR TYPES OTHER THAN THE SINGLE MECHANICAL SEAL G0K9 SEE SECTION ON SEALS

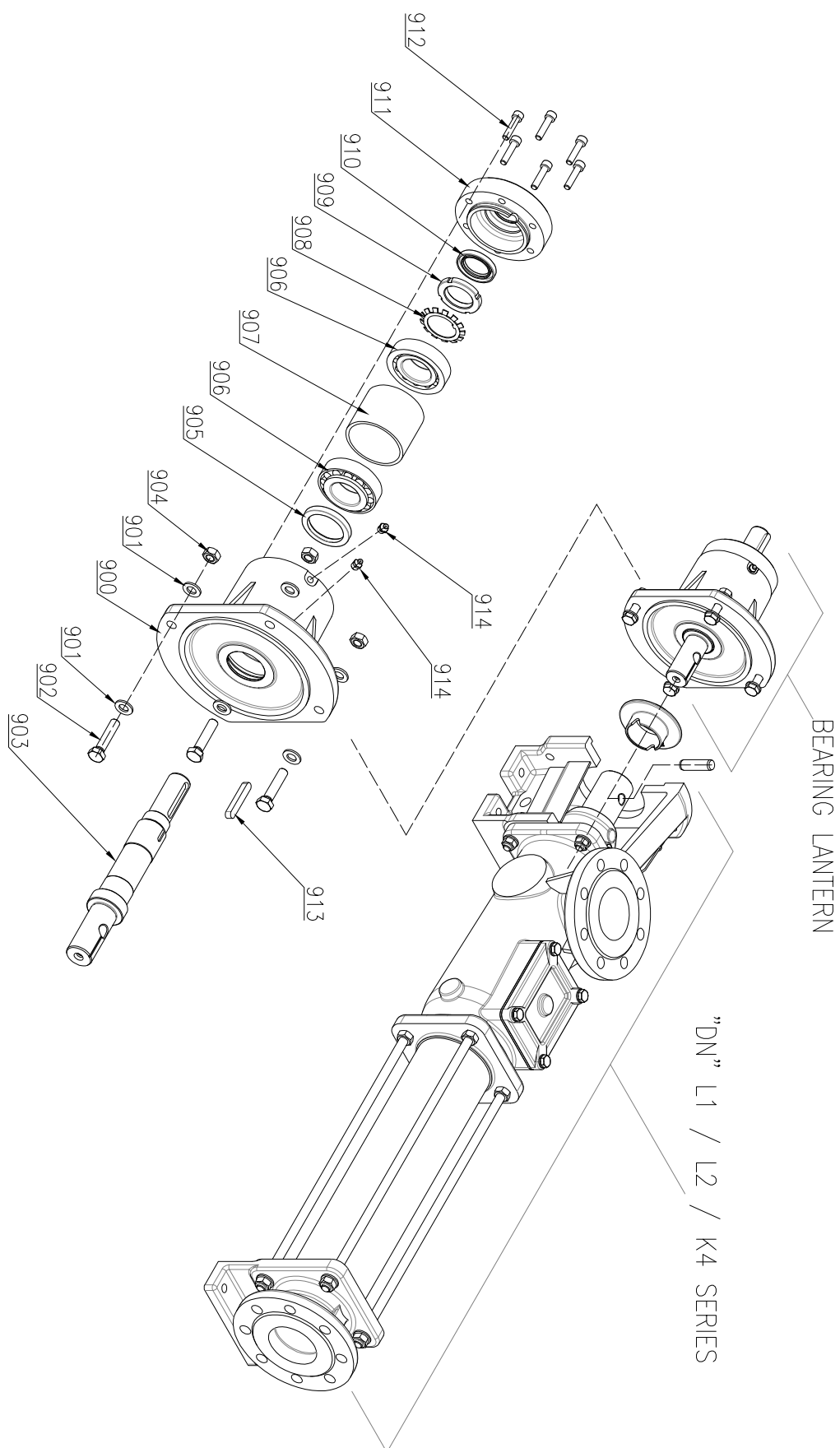
1.2 Spare parts for bearing housing

technical drawings "JN" L1 / K2 / K4 SERIES



“JN” MODELS

"JN" L1 / L2 / K4 SERIES

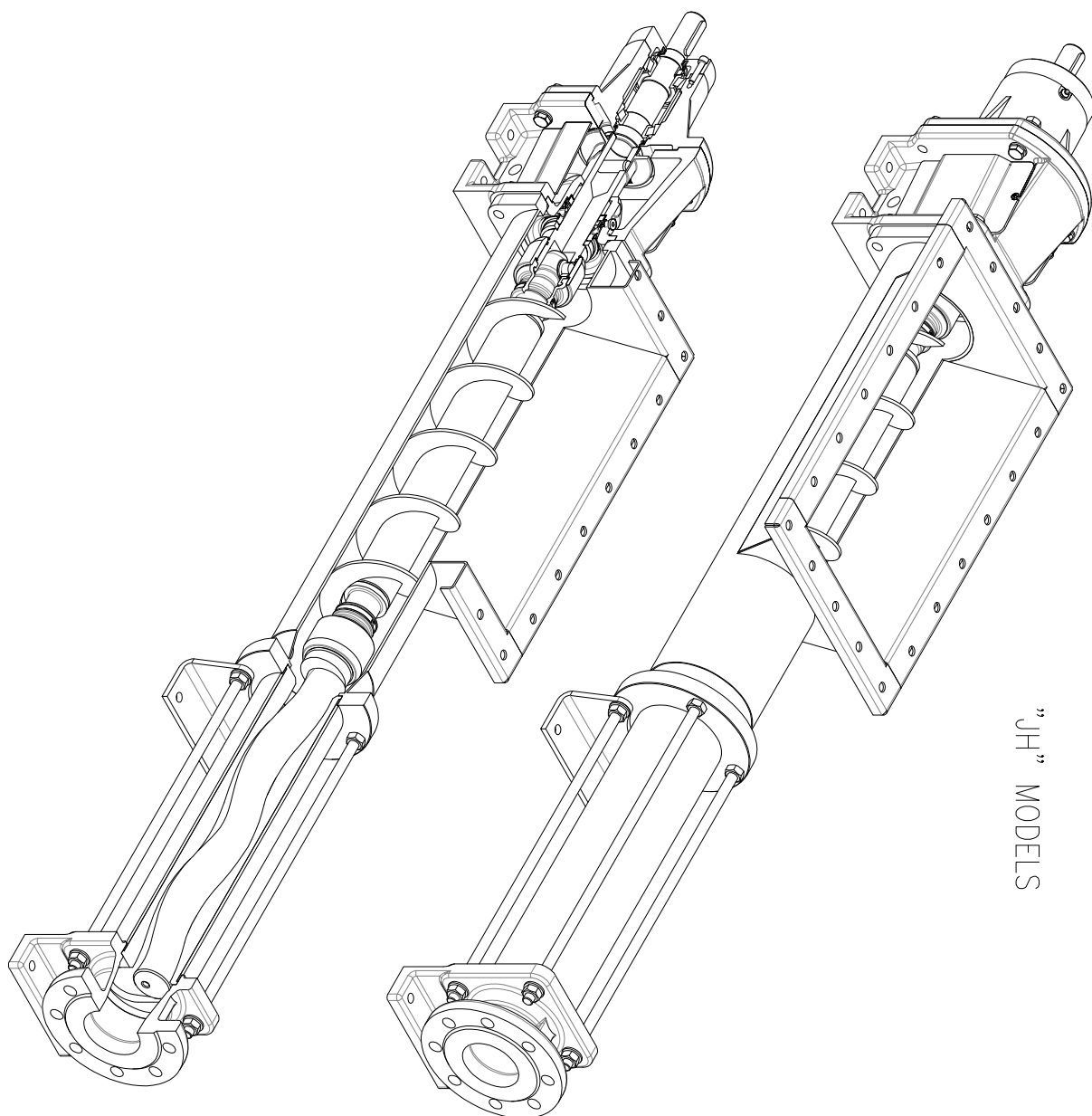


KEY

R = RECOMMENDED REPLACEMENT FOR HIGH WEAR PART

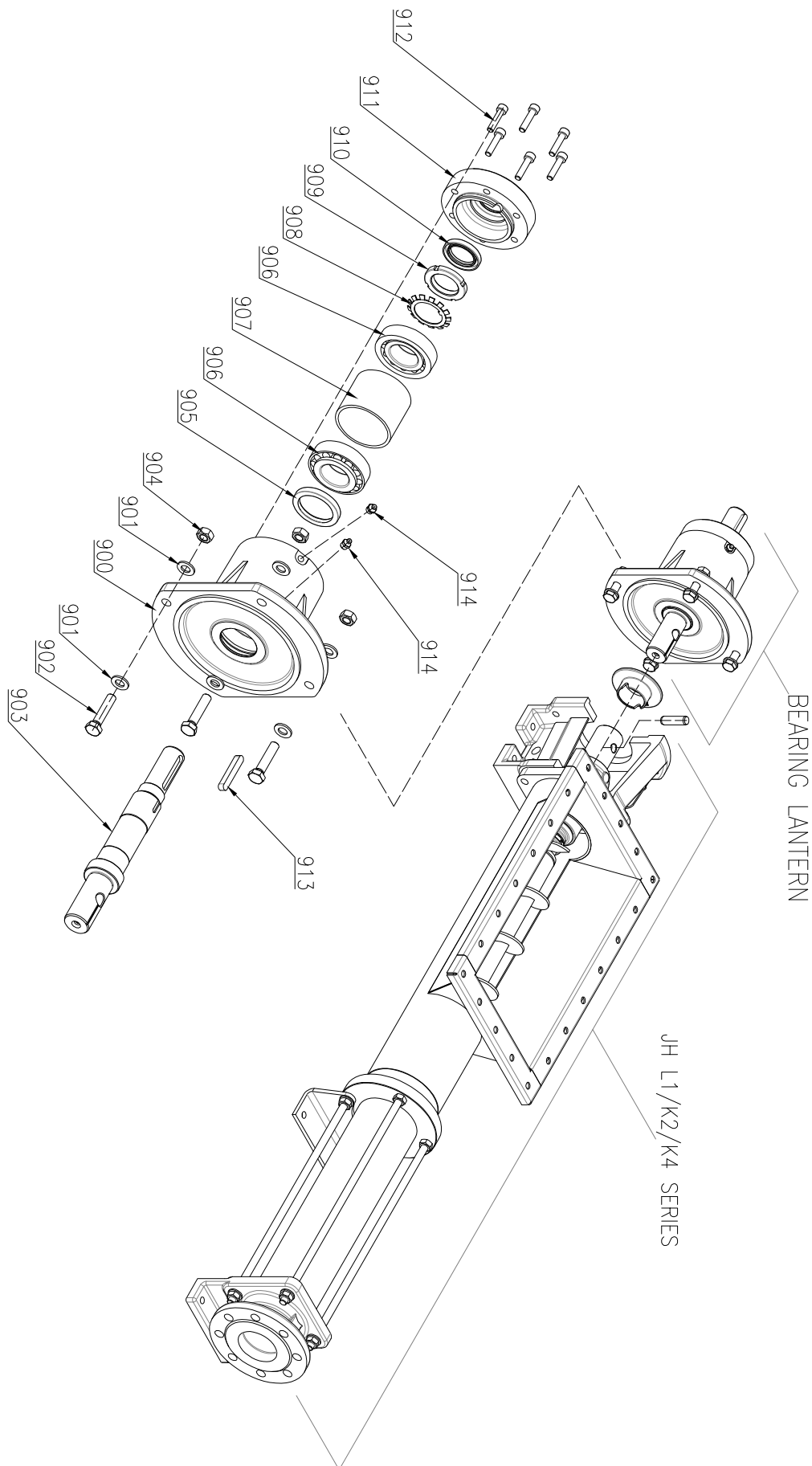
r = RECOMMENDED REPLACEMENT FOR PART NOT SUBJECT TO WEAR OR HIGH WEAR

POS.	Qty	Description	NOTES
900	1	BEARING HOUSING	
901	8	TOOTH LOCK WASHER	
902	4	HEXAGONAL HEAD SCREW	
903	1	MALE SHAFT	R
904	4	HEX NUT	
905	1	OIL SEAL	R
906	2	TAPER ROLLER BEARING	R
907	1	SPACER	
908	1	LOCK WASHER	
909	1	RING NUT	
910	1	OIL SEAL	R
911	1	BEARING COVER	
912	6	HEXAGON SOCKET HEAD SCREW	
913	1	SHAFT KEY	
914	2	LUBRICATOR	



"JH" MODELS

"JH" L1 / L2 / K4 SERIES



SPARE PARTS LIST "JH" L1 / K2 / K4 SERIES

KEY

R = RECOMMENDED REPLACEMENT FOR HIGH WEAR PART

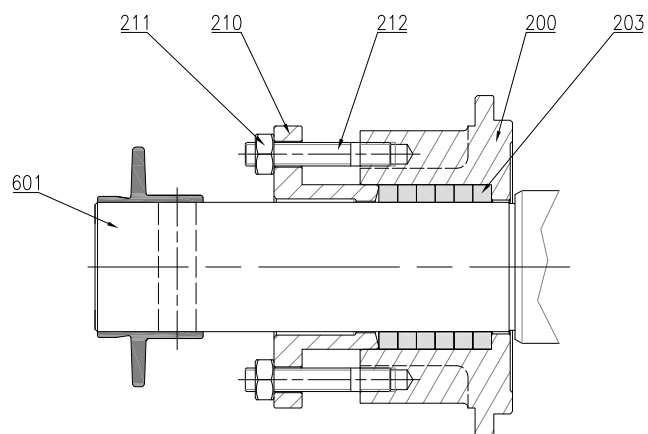
r = RECOMMENDED REPLACEMENT FOR PART NOT SUBJECT TO WEAR OR HIGH WEAR

POS.	Qty	Description	NOTES
900	1	BEARING HOUSING	
901	8	TOOTH LOCK WASHER	
902	4	HEXAGONAL HEAD SCREW	
903	1	MALE SHAFT	R
904	4	HEX NUT	
905	1	OIL SEAL	R
906	2	TAPER ROLLER BEARING	R
907	1	SPACER	
908	1	LOCK WASHER	
909	1	RING NUT	
910	1	OIL SEAL	R
911	1	BEARING COVER	
912	6	HEXAGON SOCKET HEAD SCREW	
913	1	SHAFT KEY	
914	2	LUBRICATOR	

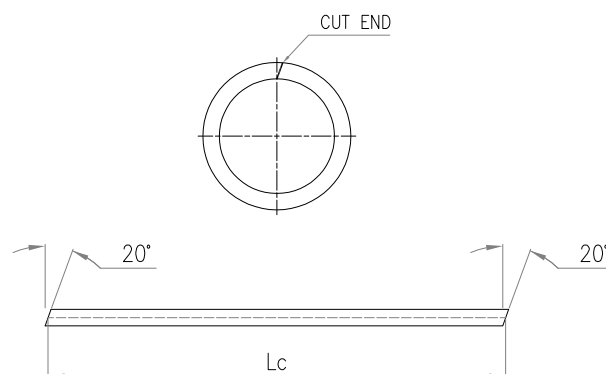
1.3 Seal systems: technical drawings and spare parts

1.3.1 Gland packing seal B01

technical drawings



Size	Model	No. rings per pack	ring dimensions	Pack L
D030	4L1 2K2 1K4	6	Ø51-Ø35 □8 Lc=144.5	48
D040	10L1 4K2 2K4 16L1 8K2	6	Ø61-45 □8 Lc=178.1	48
D060	20L1 10K2 4K4 30L1 16K2	6	Ø75-55 □10 Lc=218.4	60
D120	40L1 20K2 10K4 60L1 30K2	6	Ø85-65 □10 Lc=252	60
D300	80L1 40K2 20K4 120L1 60K2	6	Ø94-70 □12 Lc=275.5	72



SPARE PARTS LIST

KEY

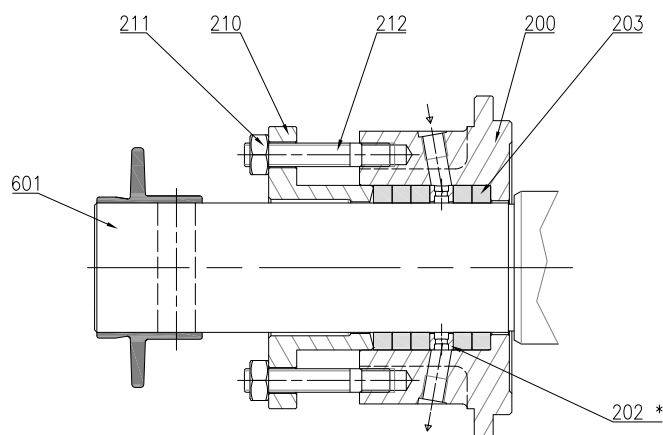
R = RECOMMENDED REPLACEMENT FOR HIGH WEAR PART

r = RECOMMENDED REPLACEMENT FOR PART NOT SUBJECT TO WEAR OR HIGH WEAR

POS.	Qty	Description	NOTES
200	1	GLAND HOUSING	
203	1	GLAND PACKING PACK	R
210	1	GLAND BUSH	
211	2	HEX NUT	
212	2	STUD	
600	1	HOLLOW SHAFT	R

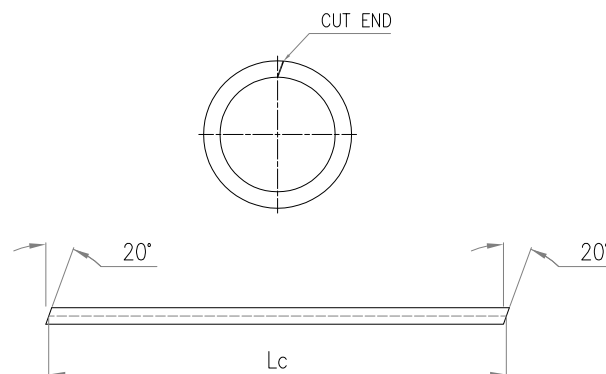
1.3.2 Gland seal with flushing B02

disegni tecnici



*THE FLUSHING RING CAN BE POSITIONED ACCORDING TO APPLICATION REQUIREMENTS

Size	Model	No. rings per pack	Ring dimensions	Pack L
D030	4L1 2K2 1K4	5 GLAND PACKING RINGS + 1 FLUSHING RING	Ø51-Ø35 □8 Lc=144.5	50
D040	10L1 4K2 2K4 16L1 8K2	5 GLAND PACKING RINGS + 1 FLUSHING RING	Ø61-45 □8 Lc=178.1	50
D060	20L1 10K2 4K4 30L1 16K2	5 GLAND PACKING RINGS + 1 FLUSHING RING	Ø75-55 □10 Lc=218.4	60
D120	40L1 20K2 10K4 60L1 30K2	5 GLAND PACKING RINGS + 1 FLUSHING RING	Ø85-65 □10 Lc=252	60
D300	80L1 40K2 20K4 120L1 60K2	5 GLAND PACKING RINGS + 1 FLUSHING RING	Ø94-70 □12 Lc=275.5	72



SPARE PARTS LIST

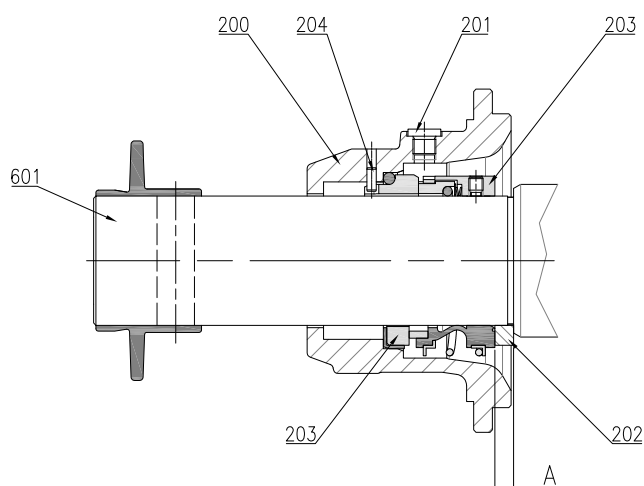
KEY

R = RECOMMENDED REPLACEMENT FOR HIGH WEAR PART

r = RECOMMENDED REPLACEMENT FOR PART NOT SUBJECT TO WEAR OR HIGH WEAR

POS.	Qty	Description	NOTES
200	1	GLAND HOUSING	
202	1	FLUSHING RING	
203	1	GLAND PACKING PACK	R
210	1	GLAND BUSH	
211	2	HEX NUT	
212	2	STUD	
600	1	HOLLOW SHAFT	R

1.3.3 Single mechanical seal G0K9



D030	4L1	35	8
	2K2		
	1K4		
D040	10L1	45	8
	4K2		
	2K4		
	16L1		
	8K2		
D060	20L1	55	8
	10K2		
	4K4		
	30L1		
	16K2		
D120	40L1	65	8
	20K2		
	10K4		
	60L1		
	30K2		
D300	80L1	70	8
	40K2		
	20K4		
	120L1		
	60K2		

SPARE PARTS LIST

KEY

R = RECOMMENDED REPLACEMENT FOR HIGH WEAR PART

r = RECOMMENDED REPLACEMENT FOR PART NOT SUBJECT TO WEAR OR HIGH WEAR

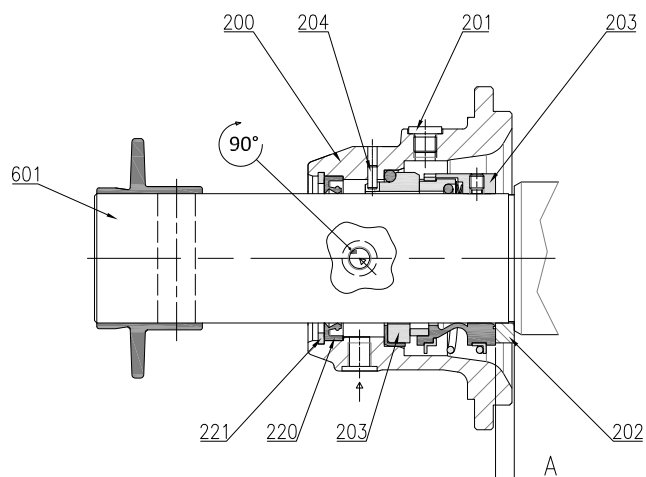
POS.	Qty	Description	NOTES
200	1	MECHANICAL SEAL HOUSING	
201	1	PLUG	
202	1	MECHANICAL SEAL RING	
203	1	MECHANICAL SEAL (ROTATING PART + STATIONARY PART)	R
204	1	PIN	1
600	1	HOLLOW SHAFT	R

1

ONLY FOR SEALS WITH ANTI-ROTATION STATIONARY PART (TYPE 120-122-110)

1.3.4 Single mechanical seal with quench Q0K9

technical drawings



D030	4L1	35	8
	2K2		
	1K4		
D040	10L1	45	8
	4K2		
	2K4		
	16L1		
	8K2		
D060	20L1	55	8
	10K2		
	4K4		
	30L1		
	16K2		
D120	40L1	65	8
	20K2		
	10K4		
	60L1		
	30K2		
D300	80L1	70	8
	40K2		
	20K4		
	120L1		
	60K2		

SPARE PARTS LIST

KEY

R = RECOMMENDED REPLACEMENT FOR HIGH WEAR PART

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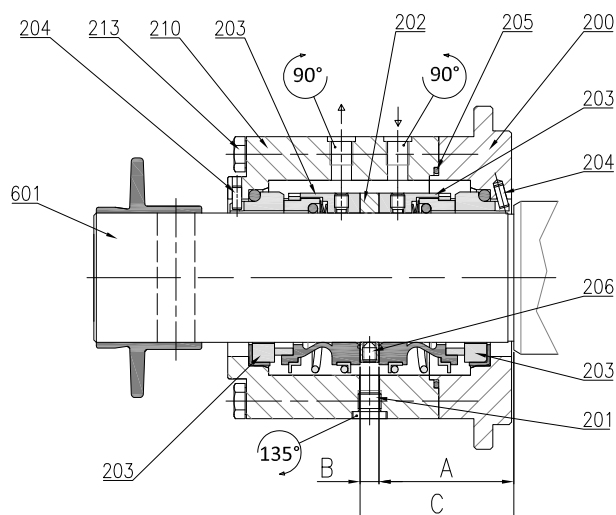
POS.	Qty	Description	NOTES
200	1	MECHANICAL SEAL HOUSING	
201	1	PLUG	
202	1	MECHANICAL SEAL RING	
203	1	MECHANICAL SEAL (ROTATING PART + STATIONARY PART)	R
204	1	PIN	1
220	1	OIL SEAL	R
221	1	RETAINING RING	
600	1	HOLLOW SHAFT	R

1

ONLY FOR SEALS WITH ANTI-ROTATION STATIONARY PART (TYPE 120-122-110)

1.3.5 Back-to-back double mechanical seal D0K9 / D0S9

Technical drawings



Size	Model	Ø (h7)	A	B	C
D030	4L1	35	51 ¹	8 ¹	59 ¹
	2K2		47 ²	16 ²	63 ²
	1K4				
D040	10L1	45	56	8	64
	4K2				
	2K4				
	16L1				
	8K2				
D060	20L1	55	57.5	8	65.5
	10K2				
	4K4				
	30L1				
	16K2				
D120	40L1	65	62	8	70
	20K2				
	10K4				
	60L1				
	30K2				
D300	80L1	70	69 ¹ 62.3 ²	8 ¹ 21.4 ²	77 ¹ 83.7 ²
	40K2				
	20K4				
	120L1				
	60K2				

SPARE PARTS LIST

KEY

R = RECOMMENDED REPLACEMENT FOR HIGH WEAR PART

r = RECOMMENDED REPLACEMENT FOR PART NOT SUBJECT TO WEAR OR HIGH WEAR

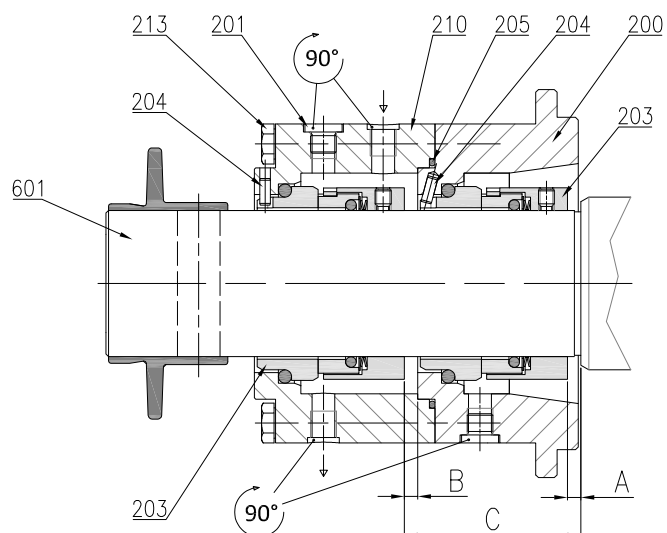
POS.	Qty	Description	NOTES
200	1	MECHANICAL SEAL HOUSING	
201	1	PLUG	
202	1	MECHANICAL SEAL RING	
203	1	MECHANICAL SEAL (ROTATING PART + STATIONARY PART)	R
204	1	PIN	¹
205	1	O-RING	R
206	3	THREADED GRUB SCREW	
210	1	MECHANICAL SEAL BUSH	
213	2	HEXAGONAL HEAD SCREW	
600	1	HOLLOW SHAFT	

¹

ONLY FOR SEALS WITH ANTI-ROTATION STATIONARY PART (TYPE 120-122-110)

1.3.6 Tandem double mechanical seal K0K9 / K0S9

Technical drawings



D030	4L1	35	5	5	59
	2K2				
	1K4				
D040	10L1	45	5	5	64
	4K2				
	2K4				
	16L1				
D060	8K2	55	5	5	66.5
	20L1				
	10K2				
	4K4				
	30L1				
D120	16K2	65	5	5	68.5
	40L1				
	20K2				
	10K4				
	60L1				
D300	30K2	70	5	5	77
	80L1				
	40K2				
	20K4				
	120L1				
	60K2				

SPARE PARTS LIST

KEY

R = RECOMMENDED REPLACEMENT FOR HIGH WEAR PART

r = RECOMMENDED REPLACEMENT FOR PART NOT SUBJECT TO WEAR OR HIGH WEAR

POS.	Qty	Description	NOTES
200	1	MECHANICAL SEAL HOUSING	
201	1	PLUG	
203	1	MECHANICAL SEAL (ROTATING PART + STATIONARY PART)	R
204	1	PIN	
205	1	O-RING	R
210	1	MECHANICAL SEAL BUSH	
213	2	HEXAGONAL HEAD SCREW	
600	1	HOLLOW SHAFT	