TKR 32/50

MECHANICAL SEAL, MULTI-STAGE CENTRIFUGAL

- ☑ Cast Iron Multi-Stage Centrifugal Pump
- ☑ Up to 30m³/h (500l/min) flow
- ☑ Up to 570m head
- ☑ Available with flanged connections
- ☑ Cast Iron Construction

SPECIFICATION

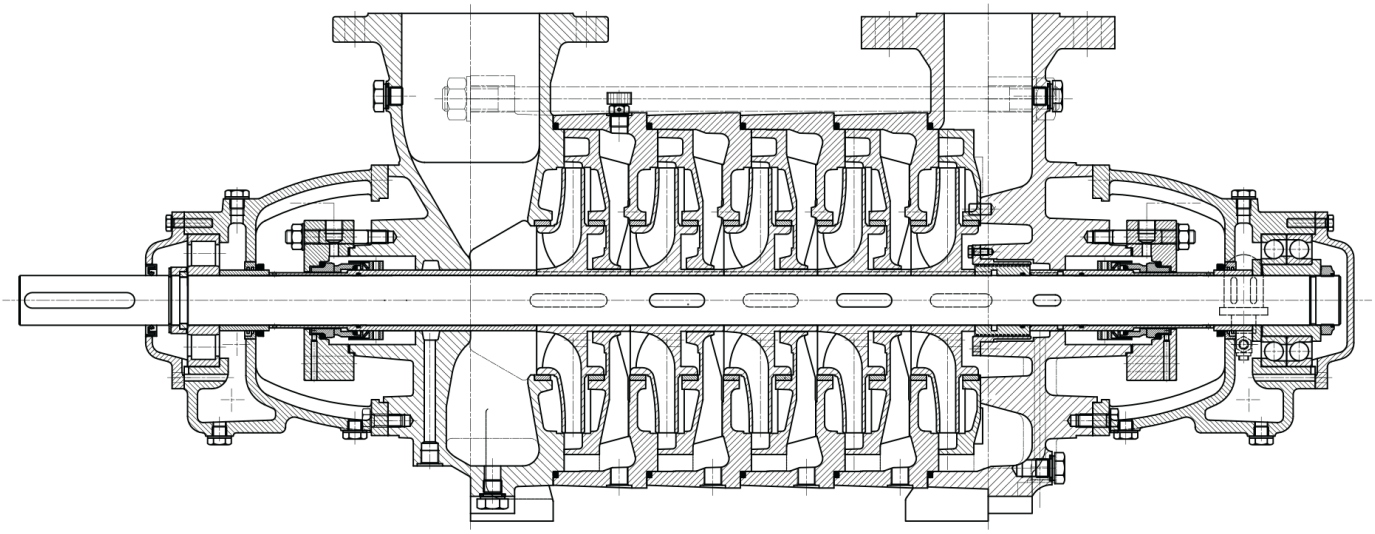
FEATURES

Temp:	Max 105°C (Soft Packing) Max 130°C (Special Mechanical Seal)
Pressure:	64 Bar (suction + shut off head)
Connections:	PN 16 Flange (Suction) PN 64 Flange (Discharge)
International Standards:	Design: ISO 9908 Perfromances: ISO 9906 deg 2 Flange Dim: ISO 7005-2

MATERIALS

Casing:	Nodular Cast Iron
Radial Impeller:	Cast Iron or Bronze
Diffuser:	Cast Iron
Wear Rings:	Bronze
Suction Casing:	Spheriod Cast Iron
Delivery Casing:	Carbon Steel
Shaft Sleeves:	Chromium Steel
Shaft:	Chromium Steel
TK Seal:	Soft Packing (PTFE)
Bearings:	Oil Lubricated

SECTION VIEW



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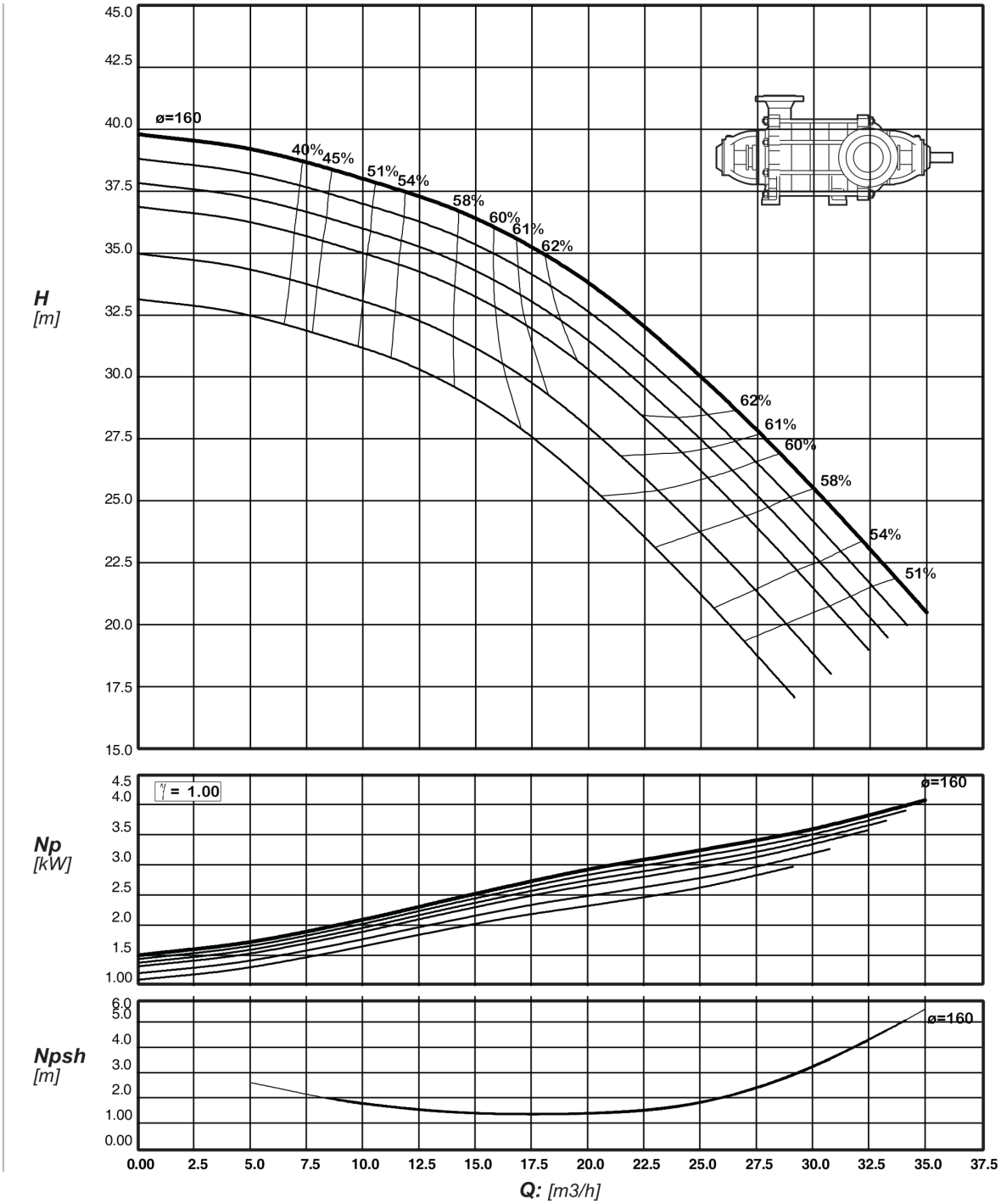
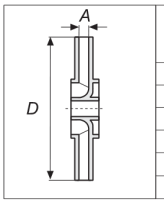
PERFORMANCE PER STAGE

Curve per Stadio /Curves for stage/Courbes pour etage

2 Poles/50Hz





Impeller	D [mm]	A [mm]
R0	160	7,5
R1	158	
R2	156	
R3	154	
R4	150	
R5	146	

N° min of stages TKR:	8
N° max of stages TKR:	15
Tolerances:	ISO 9906 grad.2
γ [Kg/m3]:	1000
υ [mm2/s]:	1
θ [°C]:	20

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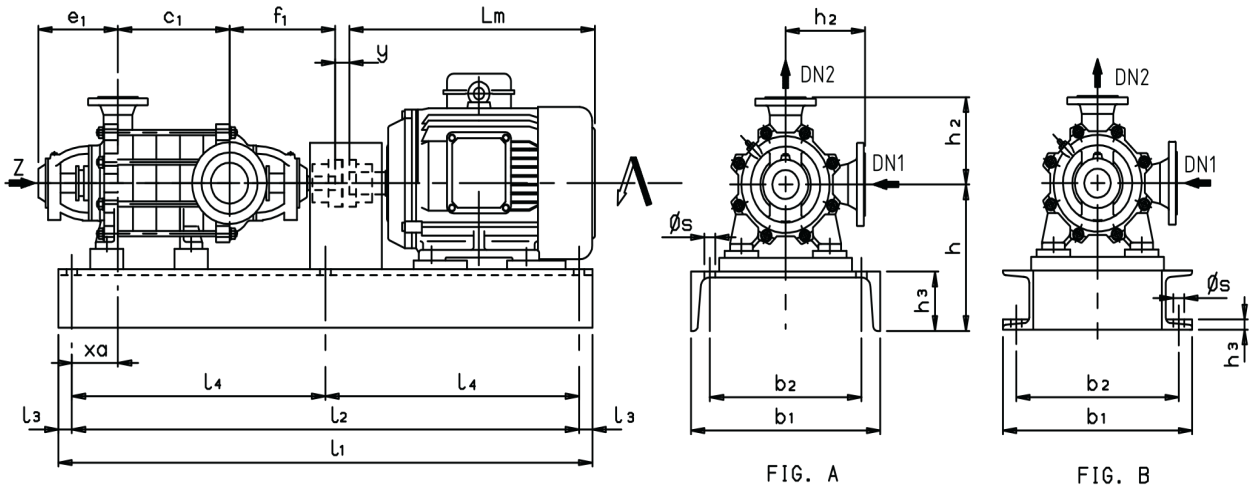
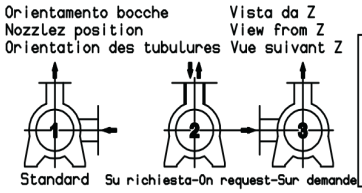
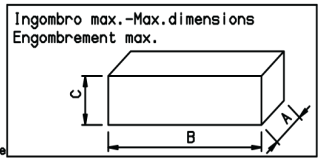
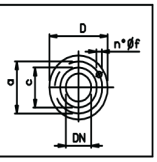
OVERALL DIMENSIONS







FLANGIA PREMENTE DN 2 Bride de refou. 32 Discharge flange					FLANGIA ASPIRANTE DN 1 Bride d'asp. 50 Suction flange				
UNI 2243-2229 PN64					UNI 2239-2229 PN16				
D	a	c	n°	f	D	a	c	n°	f
155	110	75	4	22	165	125	102	4	18



Tipo Type Type	Motore Motor Moteur				Pompa Pump Pompe				Basamento Baseplate Socle										Gruppo Unit Groupe			
	IEC	kW	Lm	y	c_1	e_1	f_1	h_2	Fig	l_1	l_2	l_3	l_4	b_1	b_2	h	h_3	Øs	xa	A	B	C	kG
32-50/ 8	180M	22	700	28	469.5	253	276	180	A	1600	1550	25	775	400	330	302	110	18	90	480	1710	580	446
	200L	30	770													322				510	1780	600	504
	200L	37	770																				520
32-50/ 9	200L	30	770	28	527	253	276	180	A	1600	1550	25	775	400	330	322	110	18	90	510	1840	600	505
	200L	37	770																		1900		535
32-50/10	200L	30	700	28	584.5	253	276	180	A	1800	1750	25	875	400	330	322	110	18	90	510	1900	600	530
	200L	37	770																				545
	225M	45	820	33					B	1650	1450	100	725	480	435	370	14	20	0	580	1970	680	570
32-50/11	200L	37	770	28	642	253	276	180	A	1800	1750	25	875	400	330	322	110	18	90	510	1980	600	568
	225M	45	820	33					B	1700	1500	100	750	480	435	370	14	20	0	580	2100	680	585
32-50/12	225M	45	820	33	699.5	253	276	180	B	1750	1550	100	775	480	435	370	14	20	0	580	2160	680	602
	250M	55	910							1850	1650		825	530	485	390				640	2250	720	705
32-50/13	225M	45	820	33	757	253	276	180	B	1850	1650	100	825	480	435	370	14	20	0	580	2220	680	618
	250M	55	910							1950	1750		875	530	485	390				640	2300	720	710
32-50/14	250M	55	910	33	814.5	253	276	180	B	2000	1800	100	900	530	485	390	14	20	0	640	2360	720	710
	280S	75	1000	37						2100	1900		950	620	570	440	16	22		720	2450	800	910
32-50/15	250M	55	910	33	872	253	276	180	B	2050	1850	100	925	530	480	410	16	22	0	640	2420	740	725
	280S	75	1000	37						2150	1950		975	620	570	440				720	2510	800	910

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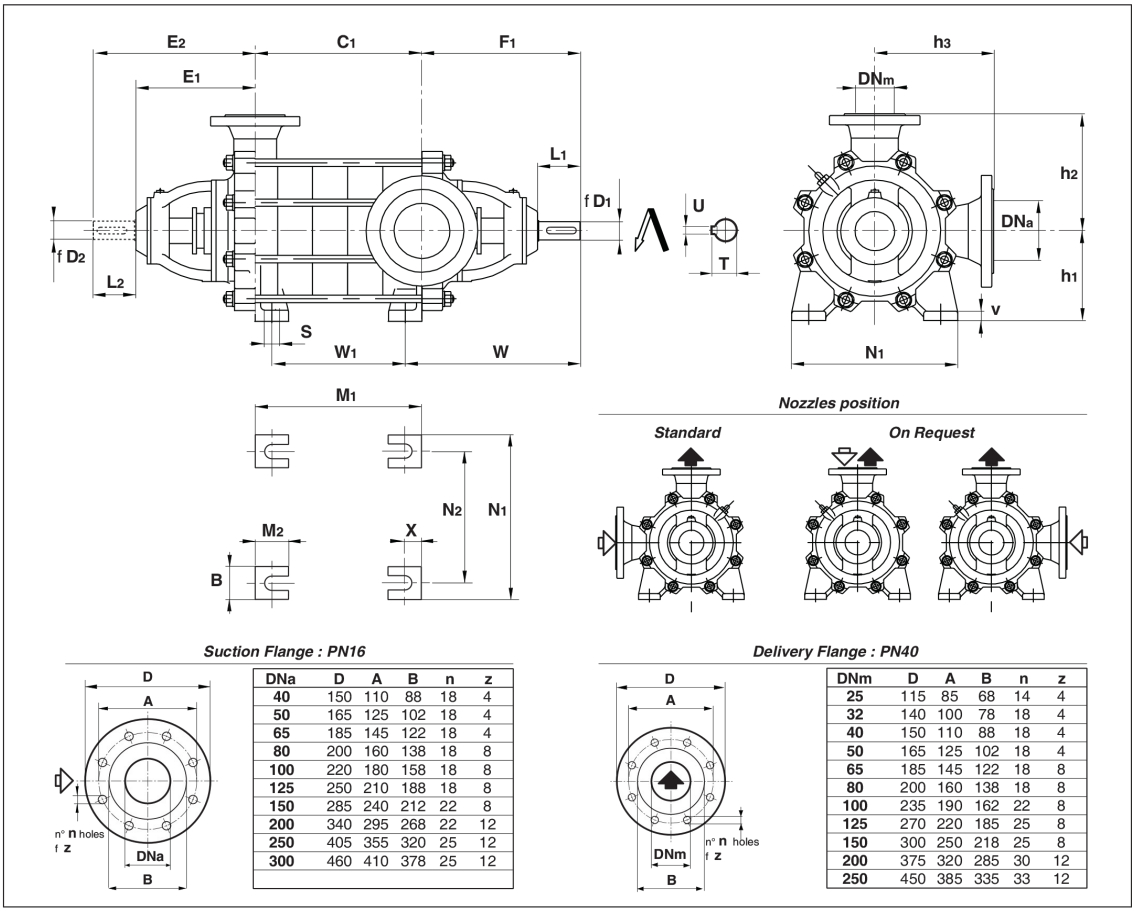
PUMP DIMENSIONS

Overall dimensions / Disegno d'ingombro / Encombrement



DNa	D	A	B	n	z
40	150	110	88	18	4
50	165	125	102	18	4
65	185	145	122	18	4
80	200	160	138	18	8
100	220	180	158	18	8
125	250	210	188	18	8
150	285	240	212	22	8
200	340	295	268	22	12
250	405	355	320	25	12
300	460	410	378	25	12

DNm	D	A	B	n	z
25	115	85	68	14	4
32	140	100	78	18	4
40	150	110	88	18	4
50	165	125	102	18	4
65	185	145	122	18	8
80	200	160	138	18	8
100	235	190	162	22	8
125	270	220	185	25	8
150	300	250	218	25	8
200	375	320	285	30	12
250	450	385	335	33	12

Type	Dimensions [mm]																			
			C1: Number of Stages /Numero di Stadi / Nombre d'Etage																	
	Dna	DNm	2	3	4	5	6	7	8	9	10	11	12	13	14	E1	E2	F1	h1	h2/h3
25-40	40	25	100	145	190	235	280	325	370	415	460	505	550	595	640	170	215	200	112	150
32-50	50	32	124,5	182	239,5	297	354,5	412	469,5	527	584,5	642	699,5	757	814,5	210	275	256	132	180
40-65	65	40	143	206	269	332	395	458	521	584	647	710	773	836		227	310	295	160	200
50-80	80	50	161	227	293	359	425	491	557	623	689	755	821			227	310	295	160	200
65-100	100	65	185	260	335	410	485	560	635	710	785					247	335	315	180	240
80-125	125	80	215	300	385	470	555	640	725	810						295	410	390	200	260
100-150	150	100	260	360	460	560	660	760	860							320	435	425	225	280
125-150 A/B	150	125	315	440	565	690	815	940	1065							330	445	430	280	350
150-200	200	150	370	510	650	790	930	1070								370	510	495	315	400
200-250A	250	200	410	565	720	875	1030									350	495	510	355	450
200-250B	250	200	435	615	795	975	1156									350	495	505	355	450
250-300	300	250	500	700	900	1100										375	520	550	400	500

Type	Dimensions [mm]																		Weight [kg]	
											Shaft/Albero/Arbre - Std				Shaft - On Request					
	B	M1	M2	N1	N2	S	V	W	W1	X	D1	L1	T1	U1	D2	L2	T2	U2	2st	+ 1st
25-40	40	C1+24	50	255	220	M14	14	240	C1- 6	15	20	40	22,5	6	18	40	20,5	6	33	5,5
32-50	50	C1+7,5	50	310	270	M14	15	313,5	C1-22,5	15	30	60	33	8	28	60	31	8	62	11
40-65	60	C1+12	60	300	250	M18	16	360	C1- 23	17,5	35	80	38	10	32	80	35	10	88	14,5
50-80	60	C1-1	60	300	250	M18	16	373	C1- 36	17,5	35	80	38	10	32	80	35	10	90	15
65-100	70	C1-5	70	330	280	M20	18	410	C1- 37	20	40	80	43	10	38	80	41	10	126	23
80-125	75	C1	75	380	320	M24	20	440	C1-100	50	45	110	48,8	14	42	110	45,3	12	190	30
100-150	80	C1	80	420	350	M24	22	475	C1-100	50	50	110	53,8	14	48	110	51,8	14	254	48
125-150 A/B	110	C1	90	500	400	M24	25	485	C1-110	55	50	110	53,8	14	48	110	51,8	14	340	80
150-200	110	C1	110	550	450	M24	26	560	C1-130	65	55	140	59,3	16	52	140	56,3	16	560	120
200-250A	120	C1	120	660	550	M30	30	580	C1-140	70	60	140	64,4	18	56	140	60,3	16	730	155
200-250B	220	C1	120	660	550	M30	30	575	C1-140	70	65	140	69,4	18	62	140	66,4	18	740	160
250-300	160	C1	140	750	600	M30	33	630	C1-160	80	70	140	74,9	20	65	140	69,4	18	1000	200

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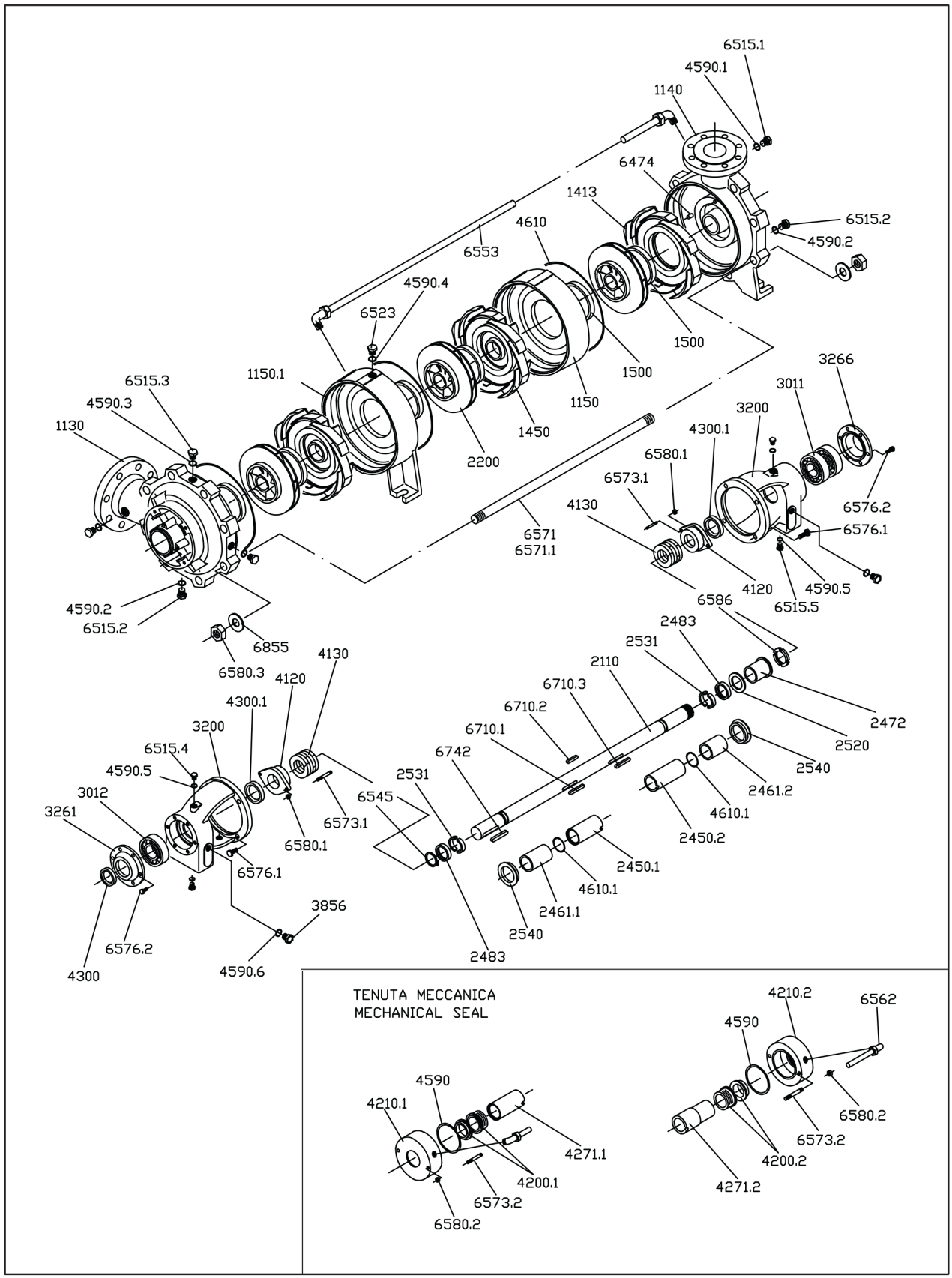
PARTS



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PARTS

Item	Descrizione	*Description*	n° pcs
1130	Camera aspirante	Suction casing	1
1140	Camera premente	Discharge casing	1
1150	Corpo di stadio	Stage casing	N°-2
1150,1	Corpo di stadio con piede	Stage casing with foot	1
1413	Diffusore ultimo stadio	Diffuser last stage	1
1450	Diffusore	Diffuser	N°-1
1500	Anello di usura	Wear ring	* N°x2
2110	Albero	Shaft	1
2200	Girante	Impeller	N°
2450,1	Camicia protezione albero	Shaft sleeve	1
2450,2	Camicia protezione albero	Shaft sleeve	1
2461,1	Bussola distanziatrice	Spacer sleeve	1
2461,2	Bussola distanziatrice	Spacer sleeve	1
2472	Bussola centraggio cuscinetto	Bearing adaptor sleeve	1
2483	Bussola di bloccaggio	Locating sleeve	2
2520	Anello di spallamento	Loose collar	1
2531	Anello di arresto in due metà	Retaining ring , split	2
2540	Deflettore	Trower	2
3011	Cuscinetto radiale a sfere	Radial ball bearing	** 1
3012	Cuscinetto radiale a rulli	Radial roller bearing	1
3200	Corpo del supporto	Bearing housing	2
3261	Coperchio del supp. lato comando	Bearing cover , drive size	1
3266	Coperchio del supp. lato terminale	Bearing end cover	1
3856	Indicatore di livello olio	Oil sigot gauge	2
4120	Collare del premitreccia	Gland	2
4130	Guarnizione a treccia	Gland packing	mt. 2
4200,1	Tenuta meccanica	Mechanical seal	1
4200,2	Tenuta meccanica	Mechanical seal	1
4210,1	Scatola tenuta meccanica	Housing for mechanical seal	1
4210,2	Scatola tenuta meccanica	Housing for mechanical seal	1
4271,1	Camicia d'albero tenuta meccanica	Shaft sleeve for mechanical seal	1
4271,2	Camicia d'albero tenuta meccanica	Shaft sleeve for mechanical seal	1
4300	Guarnizione a labbro	Lip seal	1
4300,1	Guarnizione a labbro	Lip seal	2
4590	Guarnizione piana	Gasket	2
4590,1	Guarnizione piana	Gasket	1
4590,2	Guarnizione piana	Gasket	2
4590,3	Guarnizione piana	Gasket	1
4590,4	Guarnizione piana	Gasket	1
4590,5	Guarnizione piana	Gasket	2
4590,6	Guarnizione piana	Gasket	1
4610	O-Ring	O-Ring	N°
4610,1	O-Ring	O-Ring	2
6474	Spina	Pin	1
6515,1	Tappo	Plug	1
6515,2	Tappo	Plug	2
6515,3	Tappo	Plug	1
6515,4	Tappo	Plug	2
6515,5	Tappo	Plug	2
6523	Valvola di sfiato	Vent valve	1
6545	Anello di fermo	Circlip	1
6553	Tubazione scarico pressione	Pressure discharge conduit	1
6562	Tubazione lavaggio tenute	Seal washing conduit	1
6571	Tirante	Tie bolt	6
6571,1	Tirante prigioniero	Tie bolt stud	2
6573,1	Prigioniero per tenuta baderna	Stud for packing seal	4
6573,2	Prigioniero per tenuta meccanica	Stud for mechanical seal	8
6576,1	Vite	Screw	*** 8
6576,2	Vite	Screw	12
6580,1	Dado	Nut	4
6580,2	Dado	Nut	8
6580,3	Dado	Nut	14
6586	Ghiera del cuscinetto	Bearing nut	1
6855	Rosetta	Washer	14
6710,1	Linguetta	Key	1
6710,2	Linguetta	Key	N°-2
6710,3	Linguetta	Key	1
6742	Linguetta del giunto	Key for coupling	1

Note:
** Opzione a richiesta / Option if required*
*** N°2 x TKR 65-100 *** N°12 x TKR 65-100*

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