

50Hz



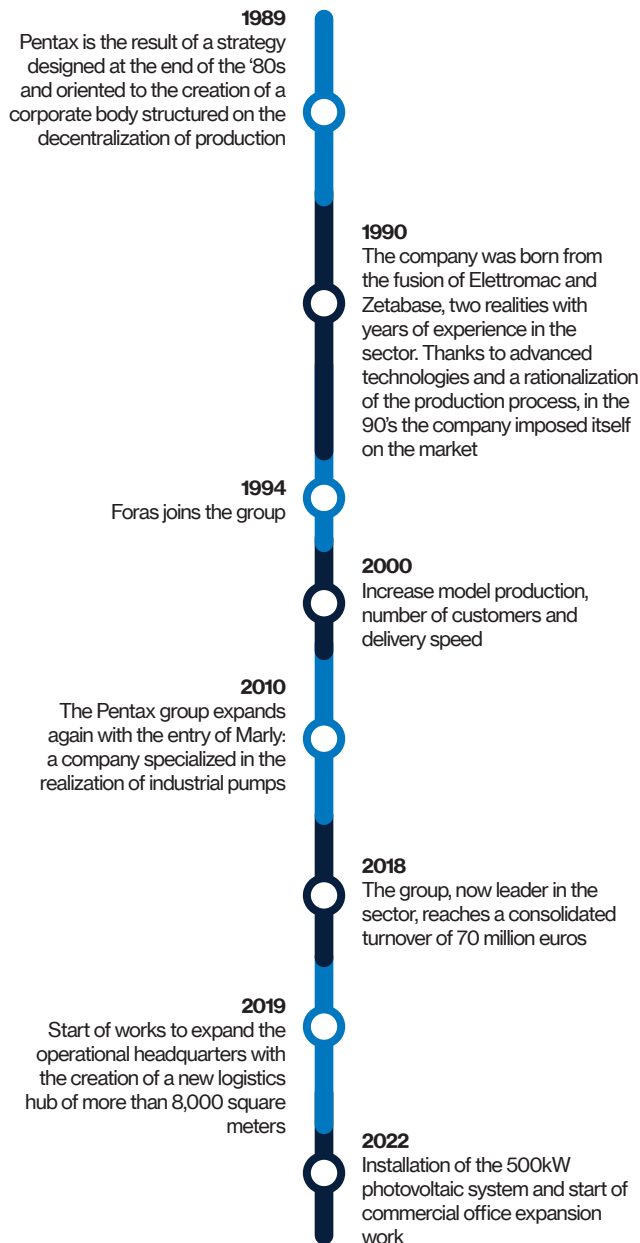
GENERAL CATALOGUE

www.pentax-pumps.it



HISTORY

For many years **Pentax** has held a large share of the world market for motorized pumps. The sales department is constantly working to better serve existing customers and to open up new markets. This is possible thanks to the wide range of products available which allows to cover most of the applications in the pump field. Special attention is also paid to market surveys, so that any new requirements can be immediately transferred to the research and development department: the best way to properly develop and forecast future scenarios.

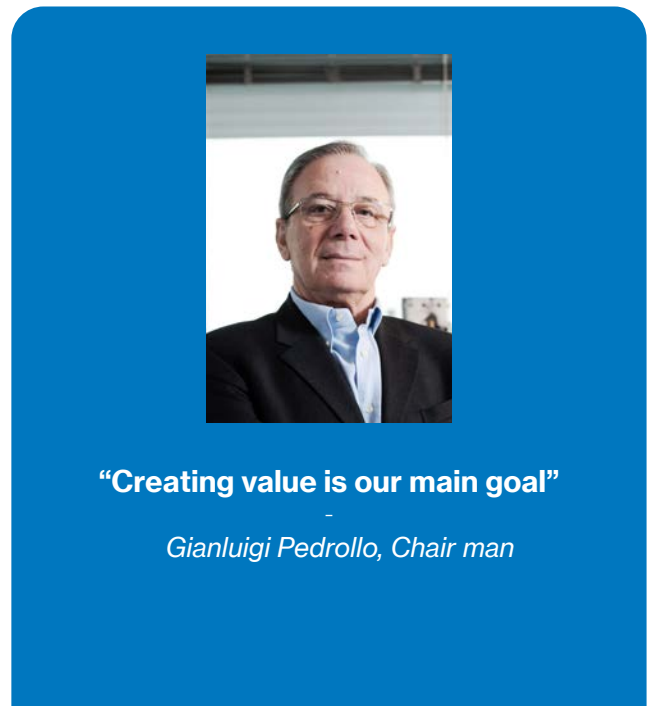


MISSION

After more than **20 years of activity** we can finally trace the guidelines that have governed and directed the industrial development of **Pentax Industries SpA**. Actions and processes that have intersected with the obvious aim of creating value, benefits to be redistributed to the various components of the production and distribution process.

A rational allocation of available resources, together with a refined program of production decentralization have allowed the company to adapt to changing market conditions, each time with extreme rapidity.

Maximum attention to the markets, therefore, with the commitment to respond in real time to the specific needs of the different markets, paying particular attention to technological progress. All this in the perspective of a careful policy for **customer satisfaction**.



“Creating value is our main goal”

Gianluigi Pedrollo, Chair man

VALUES



Reliability

Choosing Pentax means choosing safety at every stage

Quality

Where there is control, there is reliability: the basis for success

Speed

Impeccable delivery time

Flexibility

Pentax studies each case thoroughly, identifies the best solution and then takes action with security

Variety

The best service: a wide range of Pentax products, one for every need



OFFICIAL JOURNAL OF THE EUROPEAN UNION

Regulation UE 547/2012

ANNEX II

«The benchmark for most efficient water pumps is $MEI \geq 0,70$ ».

«The efficiency of a pump with a trimmed impeller is usually lower than that of a pump with the full impeller diameter. The trimming of the impeller will adapt the pump to a fixed duty point, leading to reduced energy consumption. The minimum efficiency index (MEI) is based on the full impeller diameter».

«The operation of this water pump with variable duty points may be more efficient and economic when controlled, for example, by the use of a variable speed drive that matches the pump duty to the system».

Information on benchmark efficiency is available at:

www.europump.org/efficiencycharts.



ULTRA S

Multistage Horizontal

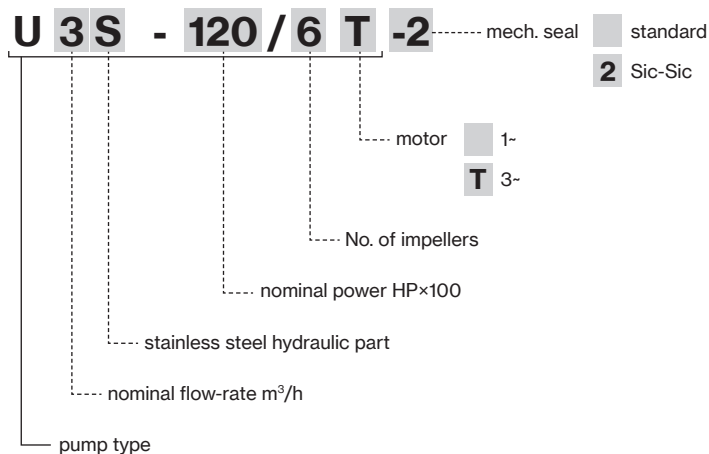
Stainless steel multistage horizontal pumps. Pumping of clean non-loaded fluids, pressurizing system, irrigation, drinking and glycol water, water treatment, heating and air conditioning, washing system.

Construction features

Pump body, mechanical seal housing	stainless steel AISI 304
Motor bracket	aluminum
Impellers, diffusers	stainless steel AISI 304
Mechanical seal	ceramic-graphite-EPDM ≤ 6 impellers graphite-silicon carbide-EPDM ≥ 7 impellers
Motor shaft	stainless steel AISI 303
Liquid temperature	-15 ÷ +110 °C
Operating pressure	max 8,5 bar

Motor

	3~ 230/400V - 50Hz
2 poles induction motor	1- 230V - 50Hz (with thermal protection up to 1,85 kW)
Insulation class	F
Protection degree	IPX4



ULTRA 3S



ULTRA 5S



ULTRA 7S



ULTRA 9S



ULTRA 18S



ULTRA S

TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)						
1~	3~					1~	3~	0	0,6	1,2	1,8	2,4	3,6	4,8
								0	10	20	30	40	60	80
		HP	kW	1~	3~	1- 230V 50 Hz	3- 400V 50 Hz	H (m)						
U 3S-50/2	U 3S-50/2T	0,5	0,37	0,41	0,41	1,8	0,9	21,7	20,9	19,3	17,8	15,9	11,4	5,8
U 3S-70/3	U 3S-70/3T	0,7	0,51	0,61	0,58	2,7	1,1	32,7	31,2	29,2	26,7	23,9	17,2	9,0
U 3S-90/4	U 3S-90/4T	0,9	0,66	0,83	0,8	3,6	1,7	44,3	42,8	40,0	36,4	33,2	24,5	13,9
U 3S-100/5	U 3S-100/5T	1	0,75	0,99	0,92	4,4	1,7	55,3	53,5	50,3	46,5	42,1	31,6	17,7
U 3S-120/6	U 3S-120/6T	1,2	0,9	1,11	1,11	5,1	2,5	66,6	64,4	60,8	56,0	50,7	38,1	22,4
U 3S-150/7	U 3S-150/7T	1,5	1,1	1,38	1,31	6,4	2,7	80,1	77,7	74,2	69,1	63,3	48,8	30,0

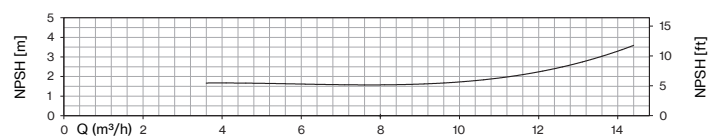
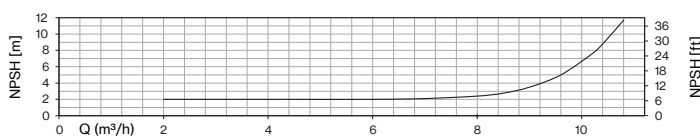
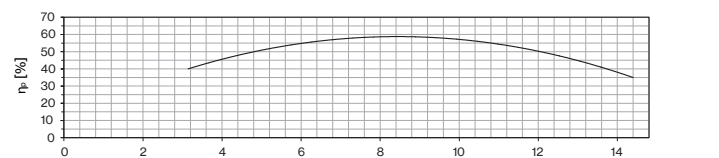
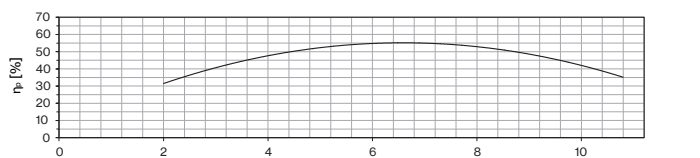
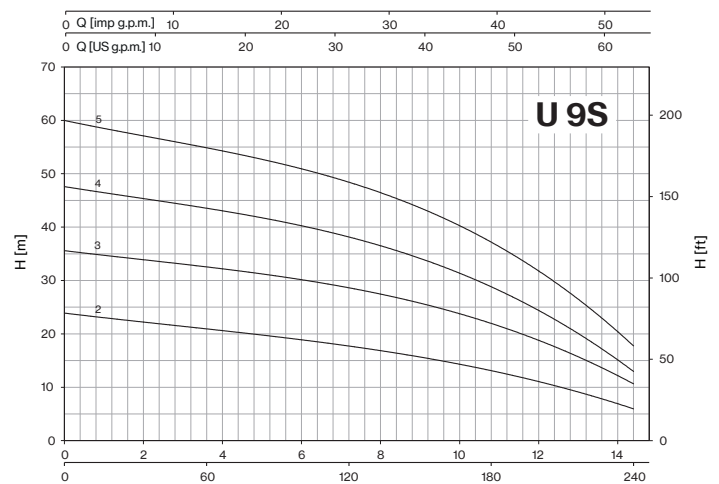
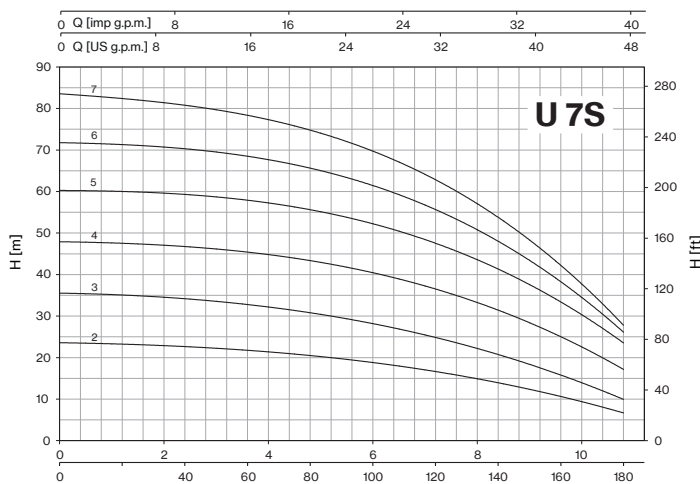
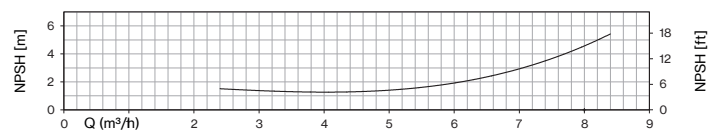
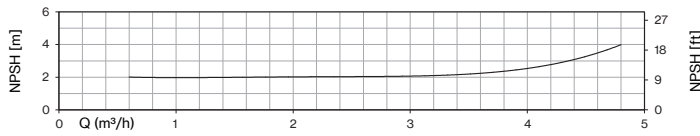
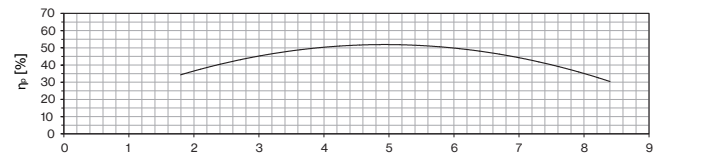
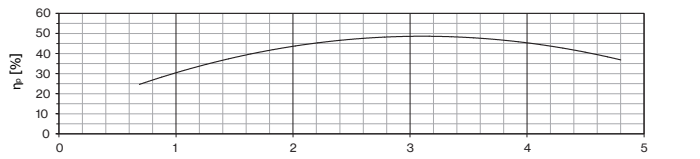
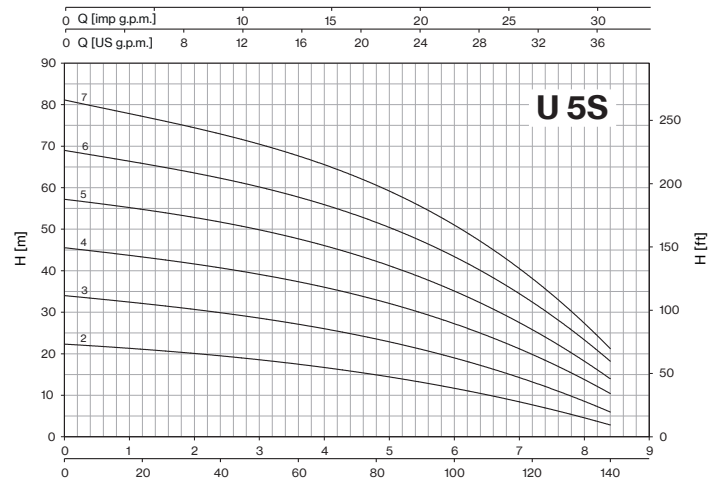
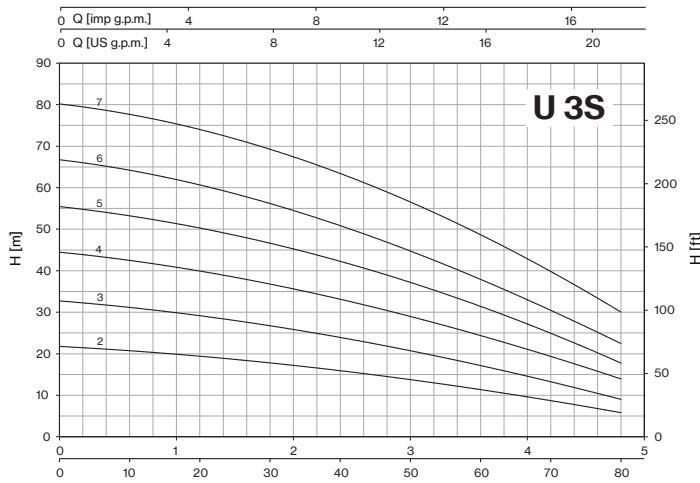
TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)							
1~	3~					1~	3~	0	1,8	2,4	3,6	4,8	6	7,2	8,4
								0	30	40	60	80	100	120	140
		HP	kW	1~	3~	1- 230V 50 Hz	3- 400V 50 Hz	H (m)							
U 5S-70/2	U 5S-70/2T	0,7	0,51	0,6	0,58	2,6	1,1	22,3	20,4	19,5	17,5	14,8	11,7	7,8	2,8
U 5S-80/3	U 5S-80/3T	0,8	0,6	0,8	0,75	3,8	1,4	34,0	31,1	29,9	27,0	23,6	19,1	13,1	6,0
U 5S-120/4	U 5S-120/4T	1,2	0,9	1,09	1,08	4,9	2,4	45,5	42,2	40,7	37,2	32,9	27,4	19,8	10,4
U 5S-150/5	U 5S-150/5T	1,5	1,1	1,39	1,31	6,5	2,7	57,2	53,4	51,7	47,6	42,3	35,2	25,7	14,0
U 5S-180/6	U 5S-180/6T	1,8	1,3	1,63	1,55	7,3	3	68,9	64,4	62,3	57,5	51,5	43,5	32,6	18,1
U 5S-200/7	U 5S-200/7T	2	1,5	1,94	1,77	8,7	3,3	81,0	75,5	73,0	67,4	60,3	51,0	38,6	21,0

TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)							
1~	3~					1~	3~	0	2,4	3,6	4,8	6	7,2	9,6	10,8
								0	40	60	80	100	120	160	180
		HP	kW	1~	3~	1- 230V 50 Hz	3- 400V 50 Hz	H (m)							
U 7S-100/2	U 7S100/2T	1	0,75	0,91	0,84	4,1	1,6	23,6	22,6	21,8	20,5	18,8	16,7	10,6	6,7
U 7S-120/3	U 7S-120/3T	1,2	0,9	1,23	1,22	5,6	2,5	35,6	33,9	32,8	31,2	28,1	24,7	15,7	10,0
U 7S-180/4	U 7S-180/4T	1,8	1,3	1,69	1,62	7,7	3,1	48,0	46,3	45,7	43,6	40,4	36,4	25,0	17,2
U 7S-250/5	U 7S-250/5T	2,5	1,85	2,19	2,05	10,2	4,1	60,3	59,0	58,2	55,7	52,2	47,4	33,5	22,0
U 7S-300/6	U 7S-300/6T	3	2,2	2,53	2,44	11,4	4,8	72,5	70,5	69,2	66,0	61,5	55,7	37,8	24,7
-	U 7S-350/7T	3,5	2,57	-	2,84	-	5,3	82,8	82,0	80,6	77,2	72,3	66,0	46,4	

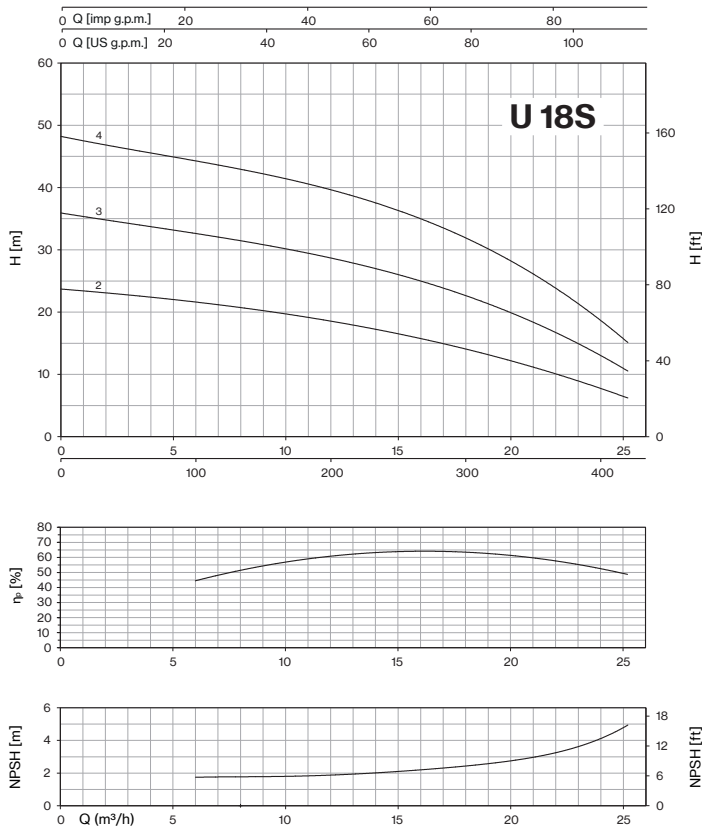
TYPE		P2		P1 (kW)		AMPERE		Q (m³/h - l/min)										
1~	3~					1~	3~	0	3,6	4,8	6	7,2	8,4	9,6	10,8	12	13,2	14,4
								0	60	80	100	120	140	160	180	200	220	240
		HP	kW	1~	3~	1- 230V 50 Hz	3- 400V 50 Hz	H (m)										
U 9S-100/2	U 9S-100/2T	1	0,75	0,99	0,95	4,5	1,6	23,9	20,9	20,0	18,8	17,7	16,5	15,0	13,0	11,0	8,7	6,0
U 9S-150/3	U 9S-150/3T	1,5	1,1	1,47	1,4	6,8	3,1	35,6	32,5	31,5	30,0	28,7	26,9	24,6	22,0	18,7	15,0	10,7
U 9S-200/4	U 9S-200/4T	2	1,5	1,88	1,77	8,4	3,3	47,6	43,5	42,1	40,1	38,1	35,7	32,7	28,9	24,2	19,0	13,1
U 9S-250/5	U 9S-250/5T	2,5	1,85	2,36	2,23	10,8	4,3	60,0	54,8	53,0	51,0	48,2	45,4	42,0	37,3	31,6	25,0	18,0

TYPE		P2		P1 (kW)		A		Q (m³/h - l/min)										
3~						3~		0	6	7,2	9,6	12	14,4	16,8	19,2	21,6	24	25,2
								0	100	120	160	200	240	280	320	360	400	420
		HP	kW	3~		H (m)												
U 18S-180/2T		1,8	1,3	1,59		3		23,7	21,7	21,1	20,0	18,5	16,9	15,2	13,1	10,3	7,6	6,4
U 18S-250/3T		2,5	1,85	2,29		4,4		35,7	33,1	32,3	30,4	28,4	26,3	24,0	21,4	17,8	12,9	10,2
U 18S-400/4T		4	3	3,1		5,9		46,3	44,2	43,4	41,4	39,1	36,7	34,1	30,8	25,6	19,0	



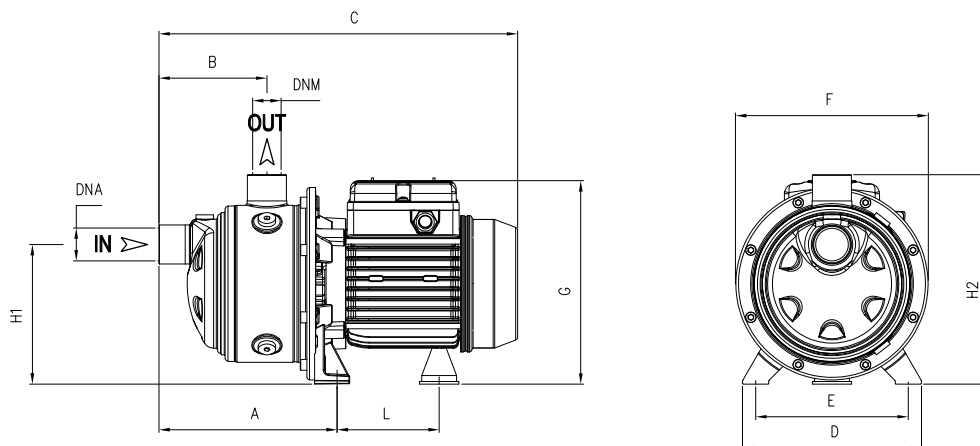


ULTRA S

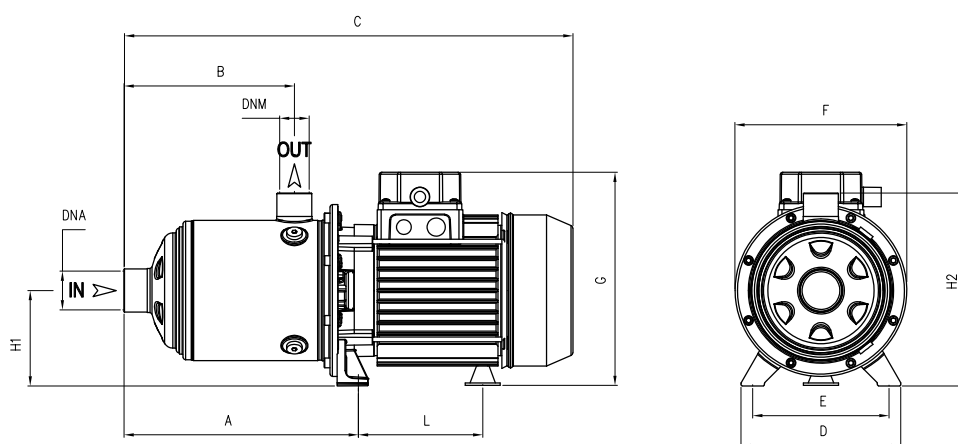


TYPE	LOTS			
	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
U 3S-50/2-90/4	80×120×150	84	80×120×175	96
U 3S-100/5-120/6	85×110×160	70	85×110×185	80
U 3S-150/7	80×120×150	42	80×120×175	49
U 5S-70/2	80×120×150	84	80×120×175	96
U 5S-80/3-120/4	85×110×160	70	85×110×185	80
U 5S-150/5	90×110×150	54	90×110×170	63
U 5S-180/6-200/7	80×120×150	42	80×120×175	49
U 7S-100/2-120/3	85×110×160	70	85×110×185	80
U 7S-180/4-250/5	90×110×150	54	90×110×170	63
U 7S-300/6T	80×120×150	42	80×120×175	49
U 7S-300/6-350/7T	80×120×145	35	80×120×170	42
U 9S-100/2	85×110×160	70	85×110×185	80
U 9S-150/3-200/4	90×110×150	54	90×110×170	63
U 9S-250/5	80×120×150	42	80×120×175	49
U 18S-180/2-250/3	90×110×150	54	90×110×170	63
U 18S-400/4	80×120×145	35	80×120×170	42






TYPE	DIMENSIONS (mm)											Kg		
	A	B	C	D	E	F	G	L	H1	H2	DNA		DNM	
U 3S-50/2	166,8	103	333	164	140	178	190	93,7	128	192	1" G	1" G	7	
U 3S-70/3	166,8	103	333	164	140	178	190	93,7	128	192			8	
U 3S-90/4	190,8	127	357	164	140	178	190	93,7	128	192			9,5	
U 3S-100/5	214,8	151	404	164	140	178	203	104,7	128	192			12	
U 3S-120/6	238,8	175	428	164	140	178	203	104,7	128	192			13	
U 3S-150/7	262,8	199	483	164	140	201	211	128,2	134	198			16	
U 5S-70/2	166,8	103	333	164	140	178	195	93,7	128	192			7,5	
U 5S-80/3	166,8	103	357	164	140	178	203	93,7	128	192			10	
U 5S-120/4	190,8	127	380	164	140	178	203	104,7	128	192			12	
U 5S-150/5	214,8	151	436	164	140	201	211	128,2	134	198			15	T 14,5
U 5S-180/6	238,8	175	459	164	140	201	211	128,2	134	198			16,5	T 15,5
U 5S-200/7	262,8	199	483	164	140	201	211	128,2	134	198			17,5	T 17




TYPE	DIMENSIONS (mm)											Kg					
	A	B	C	D	E	F	G	L	H1	H2	DNA		DNM				
U 7S-100/2	166,8	103	356	164	140	178	203	104,7	103	192	1" 1/4 G	1" G	10,5				
U 7S-120/3	166,8	103	356	164	140	178	203	104,7	92	192			11,5				
U 7S-180/4	190,8	127	441	164	140	201	211	128,2	98	198			15	T 14			
U 7S-250/5	214,8	151	436	164	140	201	211	128,2	98	198			17,5	T 16,5			
U 7S-300/6	238,8	175	503 T 459	164	140	201	229	148,2 T 128,2	103 T 98	203 T 198			19,5	T 18			
U 7S-350/7	262,8	199	567	164	140	201	229	148,2	92	203			23,5				
U 9S-100/2	185,8	118	375	164	140	178	203	104,7	98	192			1" 1/2 G	1" 1/4 G	10,5		
U 9S-150/3	185,8	118	375	164	140	201	211	128,2	98	198					14		
U 9S-200/4	215,8	148	476	164	140	201	211	128,2	98	198					16	T 15,5	
U 9S-250/5	245,8	178	464	164	140	201	211	128,2	98	198					18	T 17	
U 18S-180/2T	201	141	432	164	140	201	211	128,2	98	198					2" G	1" 1/2 G	14
U 18S-250/3T	238,5	141	432	164	140	201	211	128,2	98	198							16
U 18S-400/4T	276	178,5	554	164	140	201	229	148,2	103	203	25,5						



ULTRA (S) Serie-Mechanical seal and bearings

MECHANICAL SEAL	PUMP MODEL	SHAFT Ø		STANDARD MATERIAL	OPTIONAL
					2
	U3-50/2, U3-70/3, U3-90/4, U3-100/5, U3-120/6, U5-70/2, U5-80/3, U5-120/4, U5-150/5, U5-180/6, U7-100/2, U7-120/3, U7-180/4, U7-250/5, U7-300/6, U9-100/2, U9-150/3, U9-200/4, U9-250/5, U18-180/2, U18-250/3, U18-400/4	14mm / S	Rotating face Stationary face Elastomer	Graphite Ceramic EPDM	SiC SiC EPDM
	U3-150/7, U5-200/7, U7-350/7	14mm	Rotating face Stationary face Elastomer	Graphite SiC EPDM	SiC SiC EPDM

BEARINGS	PUMP MODEL	TYPE	
	U3-50/2, U3-70/3, U3-90/4, U5-70/2	6201-ZZ	6202-ZZ
	U3-100/5, U3-120/6, U5-80/3, U5-120/4, U7-100/2, U7-120/3, U9-100/2	6202-ZZ	6302-ZZ C3
	U3-150/7, U9-150/3, U18-180/2	6204-ZZ	6304-ZZ C3
	U5-150/5, U5-180/6, U5-200/7, U7-180/4, U7-250/5, 3- U7-300/6, U9-200/4, U9-250/5, U18-250/3	6203-ZZ	6304-ZZ C3
	1- U7-300/6, U7-350/7, U18-400/4	6203-ZZ	6305-ZZ C3