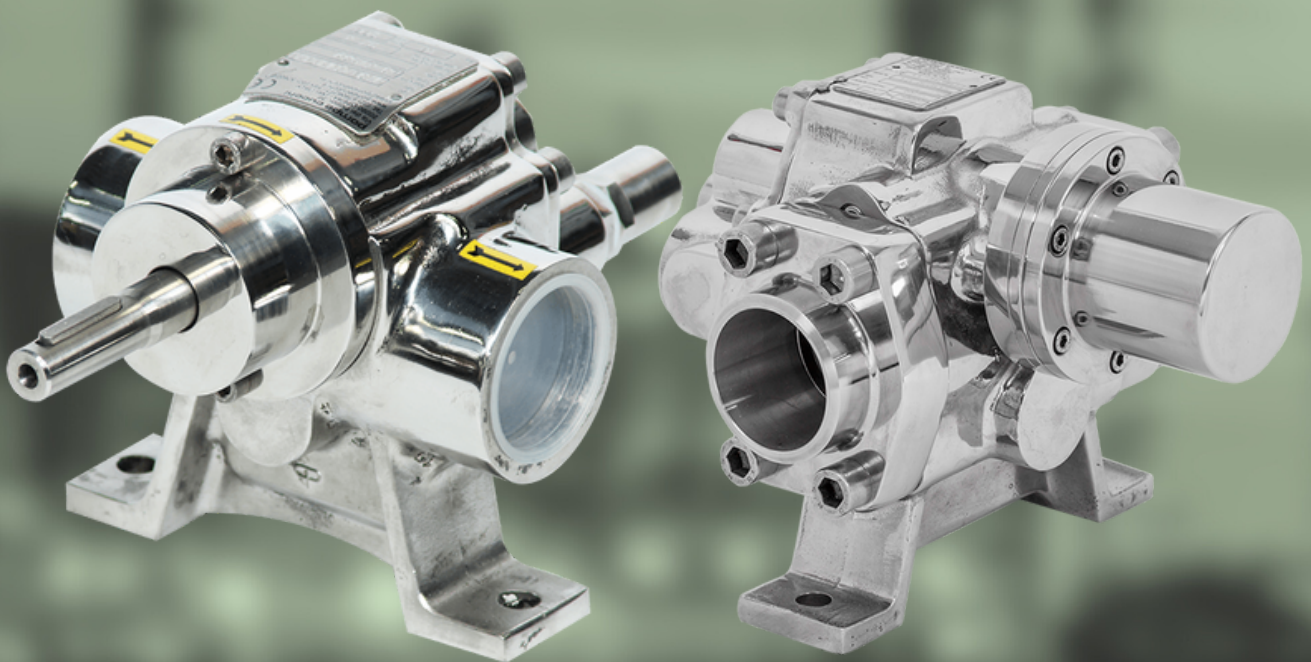




GEAR TRANSFER - MX SERIES

PUMP RANGE



MX SERIES PUMP RANGE



CUCCHI GEAR TRANSFER PUMPS



-  PRESSURE CAPACITY < 15 BAR
-  VISCOSITY HANDLING <100,000 CPS
-  SELF-PRIMING DESIGN
-  MAGNETIC COUPLING OPTION

Part of the
CUCCHI GEAR TRANSFER
Pump Range



MX SERIES

Designed by Cucchi Pumps, the MX Series gear pumps represent a new generation of precision-engineered solutions for liquid transfer. Manufactured using precision investment casting, these pumps offer exceptional surface finish and eliminate common casting defects such as cracks, which are often found in traditional sand-cast components.

The MX Series is ideal for transferring liquids with viscosities from 1 to 100,000 cps across various industries. For medium to high viscosity fluids, these pumps can also perform precise dosing when paired with; Frequencing converters or variable speed motors, Electric Control (4-20 mA signal) or Pneumatic Control (3-15 psi signal).

CONSTRUCTION & MATERIAL OPTIONS

- Standard Version: Made from AISI 316 stainless steel, featuring a specialized anti-wear, anti-seizure heat treatment known as the "black treatment."
- Food-Grade Option: An alternative "white treatment" is available on request that maintains the natural color of stainless steel.
- High Hardness (HH) Treatment: For extreme applications, gears and shafts can be treated to improve wear resistance, chemical protection, and achieve surface hardness up to 4000 Vickers—a method also used by leading Formula 1 engine manufacturers.
- Plastic Gears (KK Type): Developed for specialized applications, these high-performance plastic gears offer superior mechanical and chemical resistance compared to conventional plastics.
- Custom Materials Available: Pumps can also be made in AISI 316L, Hastelloy, Inconel, Monel, and more upon request.

MX SERIES PUMP RANGE



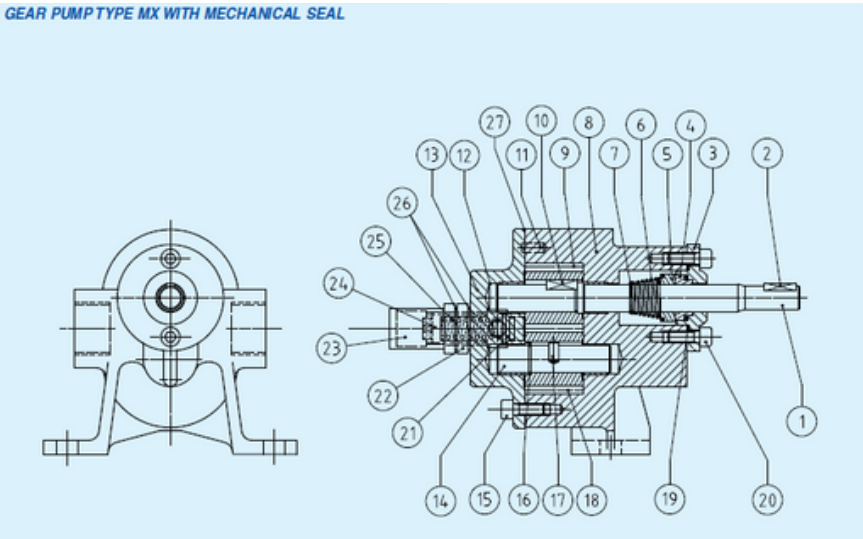
CUCCHI GEAR TRANSFER PUMPS

TECHNICAL SPECIFICATION

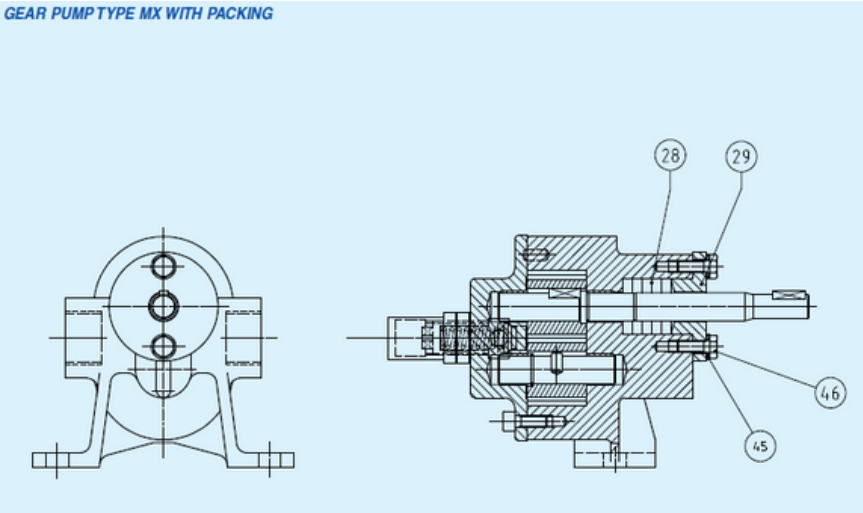
MODEL	CAPACITY (L/M)	CONNECTIONS	R.P.M	KW ABSORBED		WEIGHT (KG.)
				5 BAR	10 BAR	
MX 5	5	G 3/4"	1.450	0.19	0.24	3.0
MX 10	10	G 3/4"	1.450	0.24	0.33	3.3
MX 15	15	G 3/4"	1.450	0.30	0.42	3.8
MX 25	25	G 3/4"	1.450	0.42	0.60	4.0
MX 40	40	G 1 1/2"	1.450	0.70	1.10	6.5
MX 50	50	G 1 1/2"	1.450	0.90	1.30	6.8
MX 70	70	G 1 1/2"	1.450	1.15	1.70	7.0
MX 100	100	G 2"	1.450	1.90	2.70	15.0
MX 150	150	G 2"	1.450	2.60	4.00	16.0

PARTS LIST

GEAR PUMP TYPE MX WITH MECHANICAL SEAL



GEAR PUMP TYPE MX WITH PACKING



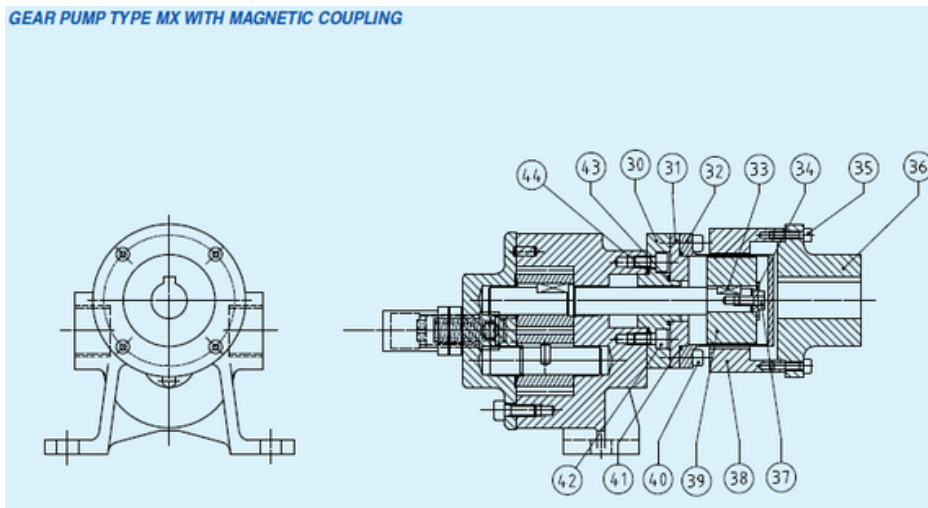
MX SERIES PUMP RANGE



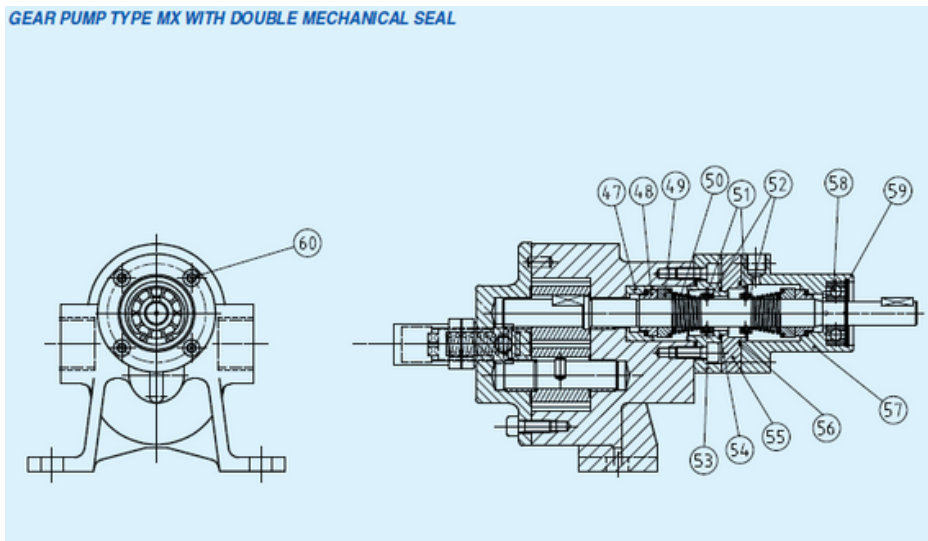
CUCCHI GEAR TRANSFER PUMPS

PARTS LIST

GEAR PUMP TYPE MX WITH MAGNETIC COUPLING



GEAR PUMP TYPE MX WITH DOUBLE MECHANICAL SEAL



Item	Description	Material			
1	Driving shaft	AISI 316L	33	Feather key	AISI 316
2	Feather key	AISI 316	34	Washer	AISI 316
3	Seal cover	AISI 316L	35	Hexagonal-head screw	Carbon steel
4	Mechanical seal (fixed ring)	Carbon Graphite	36	Coupling	Carbon steel
5	Mechanical seal (rotating ring)	Ceramic	37	Hexagonal-head screw	AISI 316
6	Spring	AISI 316Ti	38	Outer magnet	St-37 DIN 17100
7	External retaining ring	AISI 304	39	Inner magnet	DIN 1.4571 (AISI 316Ti)
8	Central body	AISI 316	40	Socket screw	AISI 316
9	Driving gear	AISI 316L	41	O-ring	FPM
10	Feather key	AISI 316	42	Socket screw	AISI 316
11	Dowel pin	AISI 316	43	O-ring	FPM
12	Supporting bush	P.T.F.E.	44	O-ring	FPM
13	Back cover	AISI 316	45	Washer	AISI 316
14	Driven gear	AISI 316L	46	Hexagonal-head screw	AISI 316
15	Socket screw	AISI 316	47	Mechanical seal seat	AISI 316L
16	Spring clip *	AISI 316	48	Mechanical seal (fixed ring)	Carbon Graphite
17	Pin **	AISI 316	49	Mechanical seal (rotating ring)	Ceramic
18	Driven gear	AISI 316L	50	Spring	AISI 316Ti
19	O-ring	FPM	51	Grub screw	AISI 316
20	Socket screw	AISI 316	52	Ring	AISI 316L
21	Shutter	AISI 316	53	Centering ring	FPM
22	Nut	AISI 316	54	O-ring	AISI 316L
23	Security cap	AISI 316	55	Intermediate ring	FPM
24	Regulating screw	AISI 316	56	O-ring	AISI 316L
25	Valve spring	AISI 302	57	External seal cover	AISI 316L
26	Gasket	P.T.F.E.	58	Radial ball bearing	AISI 440
27	Gasket	P.T.F.E.	59	External retaining ring	AISI 304
28	Packing	P.T.F.E.	60	Socket screw	AISI 316
29	Stuffing box	AISI 316L			
30	Centering ring	AISI 316L			
31	Centering ring	AISI 316L			
32	Magnetic coupling cover	DIN 1.4571 (AISI 316Ti)			

* Only for MX5 - MX25

** Feather key for MX40 - MX150

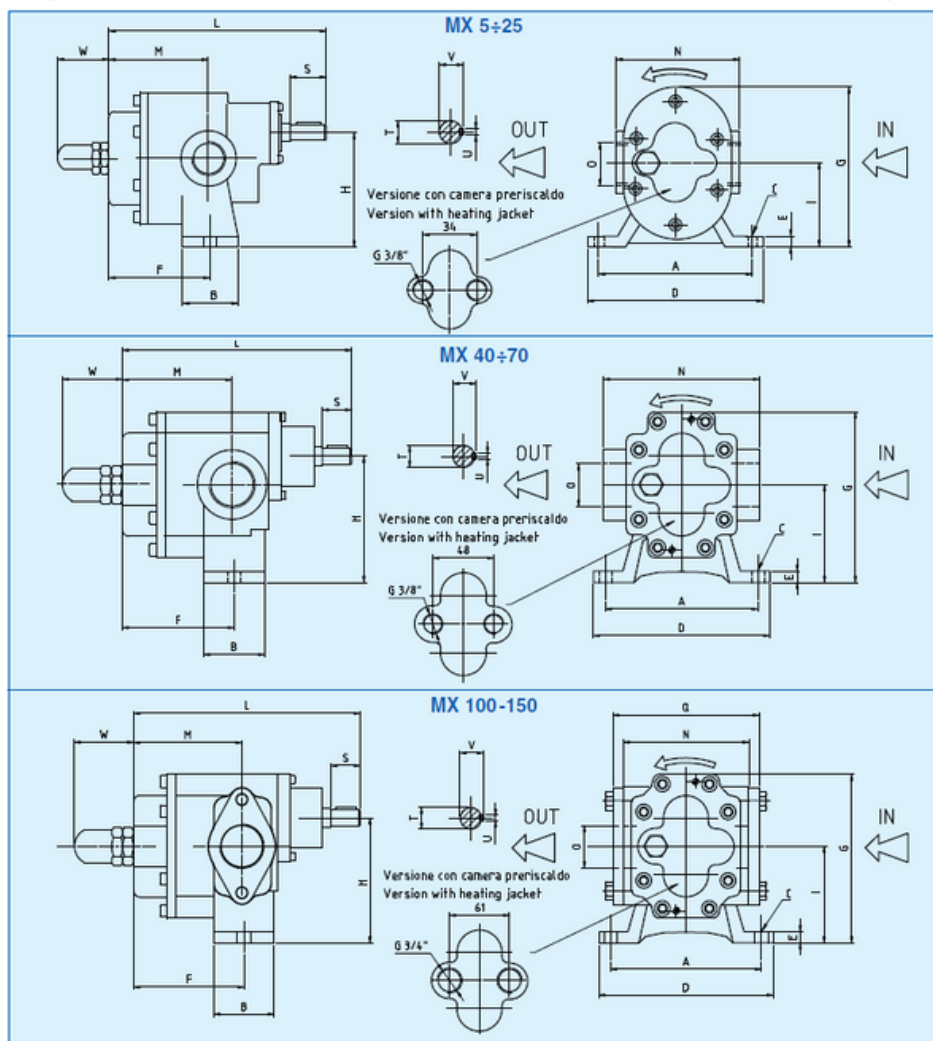
MX SERIES PUMP RANGE



CUCCHI GEAR TRANSFER PUMPS

∞ RANGE DIMENSIONS

GEAR PUMP TYPE MX WITH MECHANICAL SEAL OR PACKING



MODEL	A	B	C	D	E	F	G	H	I	L	M	N	O	Q**	S	T	U	V	W
MX5	106	40	11	130	7	52	115	80	64	149	52	98	G 3/4"	...	28	12	4	13.5	47
MX10	106	40	11	130	7	62	115	80	64	159	62	98	G 3/4"	...	28	12	4	13.5	47
MX15	106	40	11	130	7	72	115	80	64	169	72	98	G 3/4"	...	28	12	4	13.5	47
MX25	106	40	11	130	7	82	115	80	64	179	82	98	G 3/4"	...	28	12	4	13.5	47
MX40	125	40	11	145	8	70	136	100	76.5	193	70	138	G 1 1/2"	...	40	14	5	16	47
MX50	125	40	11	145	8	80	136	100	76.5	203	80	138	G 1 1/2"	...	40	14	5	16	47
MX70	125	40	11	145	8	90	136	100	76.5	213	90	138	G 1 1/2"	...	40	14	5	16	47
MX100	162	50	13	190	10	101	180	132	101	259	101	120	G 2"	160	50	24	8	27	54
MX150	162	50	13	190	10	121	180	132	101	279	121	120	G 2"	160	50	24	8	27	54

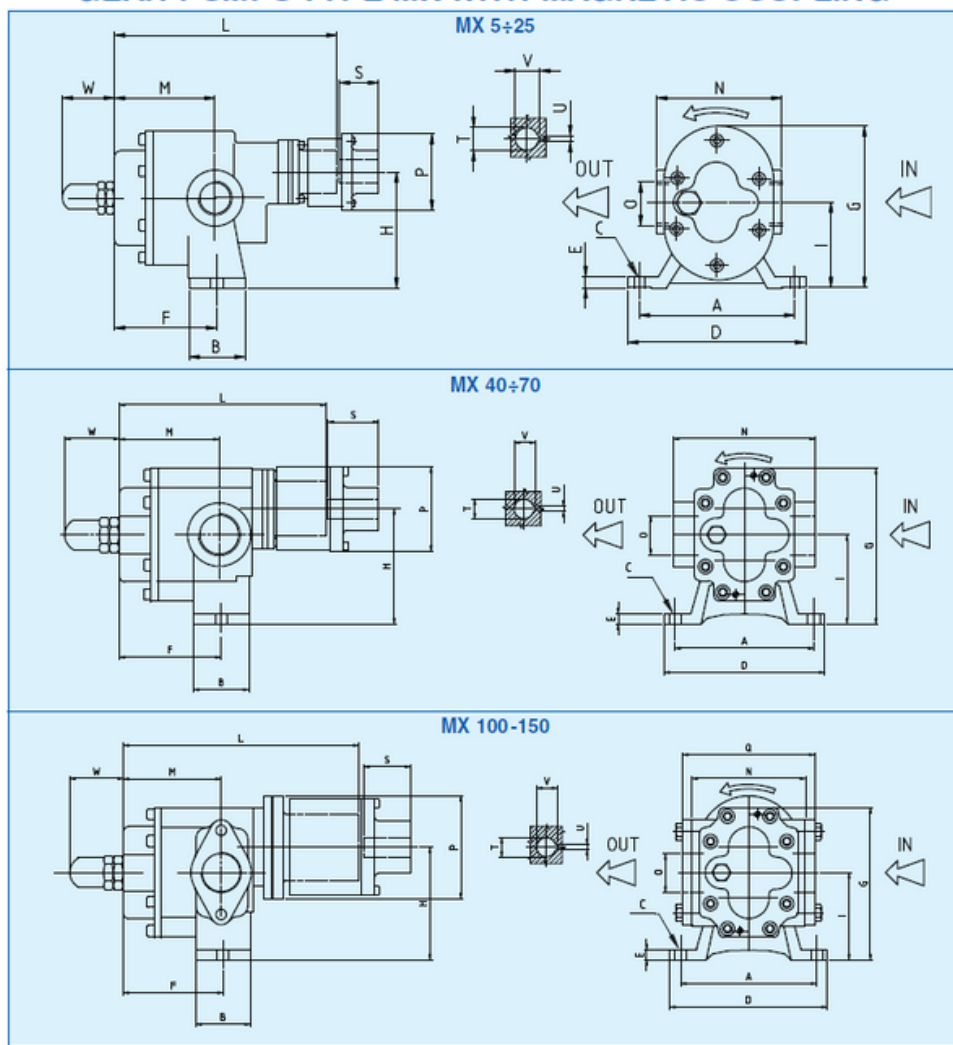
MX SERIES PUMP RANGE



CUCCHI GEAR TRANSFER PUMPS

∞ RANGE DIMENSIONS

GEAR PUMPS TYPE MX WITH MAGNETIC COUPLING



MODEL	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q***	S**	T**	U**	V**	W
MX5	106	40	11	130	7	52	115	80	64	142	52	98	G 3/4"	80	...	39/54	14/28	16.3/31.3	5/8	47
MX10	106	40	11	130	7	62	115	80	64	152	62	98	G 3/4"	80	...	39/54	14/28	16.3/31.3	5/8	47
MX15	106	40	11	130	7	72	115	80	64	162	72	98	G 3/4"	80	...	39/54	14/28	16.3/31.3	5/8	47
MX25	106	40	11	130	7	82	115	80	64	172	82	98	G 3/4"	80	...	39/54	14/28	16.3/31.3	5/8	47
MX40	125	40	11	145	8	70	136	100	76.5	180	70	138	G 1 1/2"	94	...	41/61	19/28	21.8/31.3	6/8	47
MX50	125	40	11	145	8	80	136	100	76.5	190	80	138	G 1 1/2"	94	...	41/61	19/28	31.8/31.3	6/8	47
MX70	125	40	11	145	8	90	136	100	76.5	200	90	138	G 1 1/2"	94	...	41/61	19/28	21.8/31.3	6/8	47
MX100	162	50	13	190	10	101	180	132	101	269	101	120	G 2"	112	160	60/110	28/42	31.3/45.3	8/12	54
MX150	162	50	13	190	10	121	180	132	101	289	121	120	G 2"	112	160	60/110	28/42	31.3/45.3	8/12	54

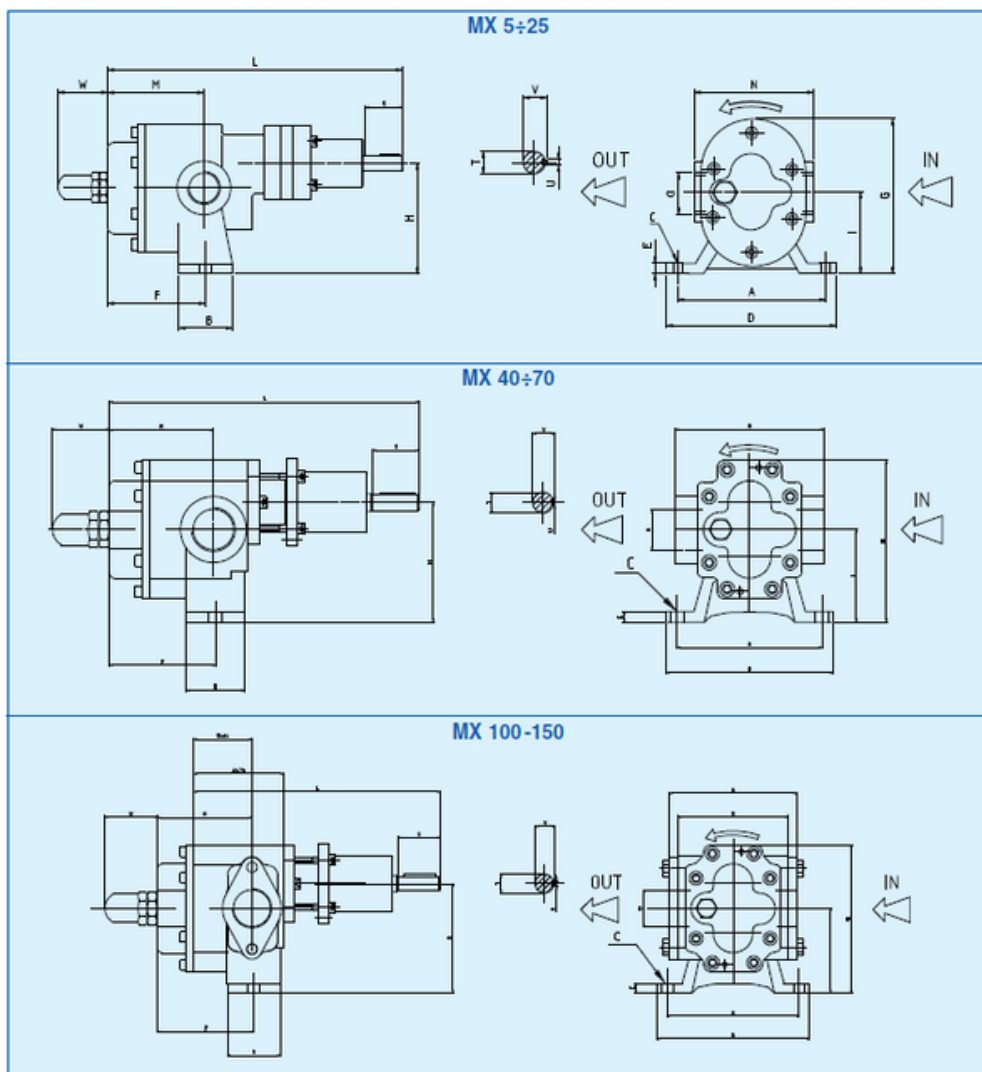
MX SERIES PUMP RANGE



CUCCHI GEAR TRANSFER PUMPS

∞ RANGE DIMENSIONS

GEAR PUMP TYPE MX WITH DOUBLE MECHANICAL SEAL



MODEL	A	B	C	D	E	F	G	H	I	L	M	N	O	Q**	S	T	U	V	W
MX5	106	40	11	130	7	52	115	80	64	204	52	98	G 3/4"	...	30	12	4	13.5	47
MX10	106	40	11	130	7	62	115	80	64	214	62	98	G 3/4"	...	30	12	4	13.5	47
MX15	106	40	11	130	7	72	115	80	64	224	72	98	G 3/4"	...	30	12	4	13.5	47
MX25	106	40	11	130	7	82	115	80	64	234	82	98	G 3/4"	...	30	12	4	13.5	47
MX40	125	40	11	145	8	70	136	100	76.5	248	70	138	G 1 1/2"	...	40	14	5	16	47
MX50	125	40	11	145	8	80	136	100	76.5	258	80	138	G 1 1/2"	...	40	14	5	16	47
MX70	125	40	11	145	8	90	136	100	76.5	268	90	138	G 1 1/2"	...	40	14	5	16	47
MX100	162	50	13	190	10	101	180	132	101	333	101	120	G 2"	160	50	24	8	27	54
MX150	162	50	13	190	10	121	180	132	101	353	121	120	G 2"	160	50	24	8	27	54