

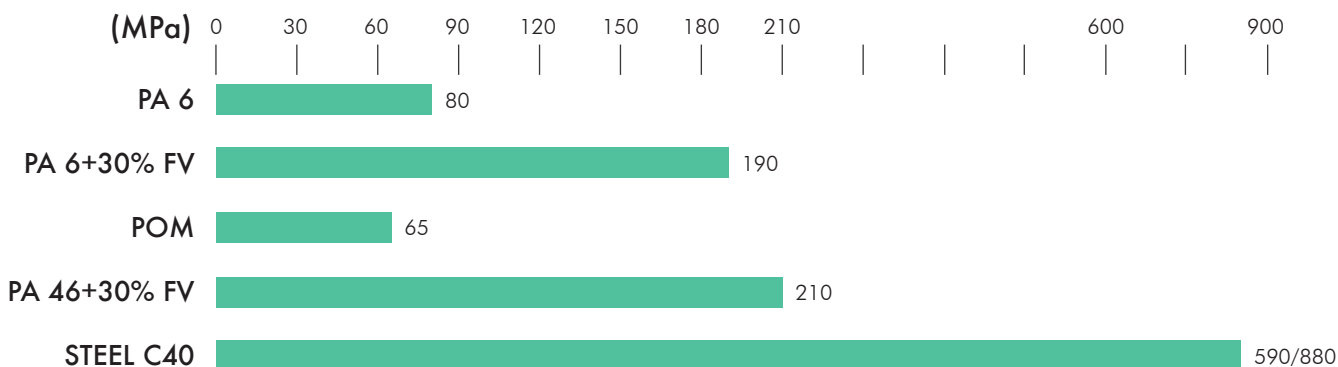
Proprietà tecniche

Technical properties

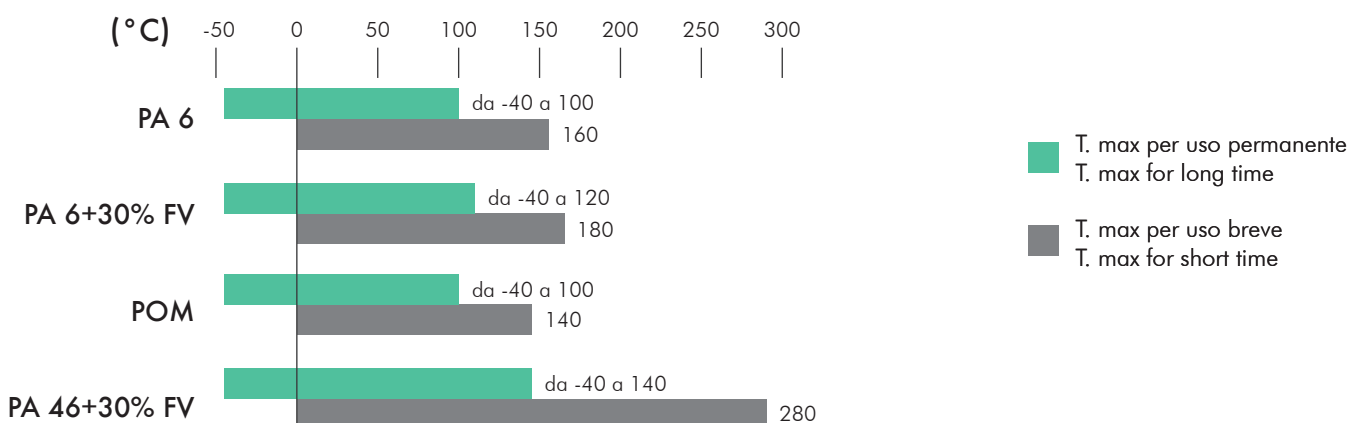
I valori sotto riportati si riferiscono a prove di trazione secondo le norme ISO 527-1/-2 e ASTM 638 per i tecnopolimeri, e EN ISO 10002-1-2001 per l'acciaio C40.

The below mentioned values refer to tensile testing with reference to the regulations ISO 527-1/-2 and ASTM 638 for technopolymer, and EN ISO 10012-1-2001 for C40 steel.

RESISTENZA A TRAZIONE / TENSILE STRENGTH AT BREAK



TEMPERATURA D'IMPIEGO / TEMPERATURE OF USE



COEFFICIENTE D'ATTRITO (SECCO SU ACCIAIO) / FRICTION COEFFICIENT AGAINST STEEL (DRY RUNNING)



I dati riportati derivano dai datasheet dei diversi materiali.
The mentioned data come from datasheet of the different materials.

Proprietà chimiche.

Chemical properties

% = Concentrazione /
Concentration

GR = Buona resistenza; limitate variazioni dimensionali o di peso; nessuna alterazione /
Good resistance-constant; little or no weight or dimensional change; no alterations

MR = Resistenza media: variazioni dimensionali e di peso dopo un determinato intervallo di tempo; possibile variazione di colore, riduzione delle proprietà meccaniche /
Medium resistance: some weight and dimensional change after a certain period; possible colour modification, reduction of mechanical properties

LA = Light attack. L'utilizzo è possibile in determinate condizioni (per es.: contatti con agenti chimici per un determinato intervallo di tempo) /
Light attack. Its use is possible under certain conditions (for ex.: occasional contact of the chemical agent for a limited period of time)

SA = Aggressione chimica /
Strongly attacked after a certain period of time

S = Solubile /
Soluble

AGENTS	%	
Acetaldehyde - aqueous solution	40	MR
Acetamide - aqueous solution	50	GR
Amyl acetate	100	GR
Butyl acetate	100	GR
Methyl acetate	100	GR
Lead acetate- aqueous solution	10	MR
Ethyl acetate	100	GR
Acetone	100	GR
Concentrate acetic acid		SA
Acetic acid - aqueous solution	40	SA
Acetic acid - aqueous solution	10	SA
Benzoic acid aqueous solution	saturated	MR
Boric acid - aqueous solution	10	GR
Butyric acid	100	GR
Chloridic acid - aqueous solution	36	S
Chloridic acid - aqueous solution	10	SA
Chloridic acid - aqueous solution	2	LA
Chromic acid	10	SA
Chromic acid - aqueous solution	1	MR
Citric acid - aqueous solution	10	MR
Fluoridric acid - aqueous solution	40	SA
Formic acid - aqueous solution	85	S
Formic acid - aqueous solution	40	SA
Formic acid - aqueous solution	10	SA
Phosphoric acid - aqueous solution	10	SA
Phosphoric acid - concentrate		SA
Phthalic acid - aqueous solution	saturated	MR
Sea- river- drinkable- distilled water		GR
Chlorine water		MR
Peroxide water - aqueous solution	30	SA
Peroxide water - aqueous solution	3	SA
Peroxide water - aqueous solution	1	LA
Peroxide water	0,5	LA
Lactic acid - aqueous solution	90	SA
Lactic acid - aqueous solution	10	GR
Oleic acid	100	GR
Oxalic acid aqueous solution	10	MR
Salicylic acid	100	GR
Sulphuric acid - aqueous solution	98	S
Sulphuric acid - aqueous solution	40	SA
Sulphuric acid - aqueous solution	10	SA
Sulphuric acid - aqueous solution	2	LA
Tartaric acid		GR
Acrylonitrile	100	GR
Allyl alcohol	100	MR
Amyl alcohol	100	GR
Benzyl alcohol	100	MR
Butyl alcohol	100	GR
Ethyl alcohol	96	GR
Isopropyl alcohol		GR
Methyl alcohol	100	GR
Propyl alcohol		GR
Ammonia	10	GR
Aniline	100	MR
Benzaldehyde	100	MR
Petrol		GR
Benzene	100	GR
Alcohol drinks		GR
Potassium bichromate - aqueous sol.	5	MR
Bisolfito di sodio - aqueous sol.	10	GR
Bitumen		MR
Potassium bromite- aqueous sol.	10	GR
Butter		GR
Butylene glycol	100	GR
Camphor	100	GR
Potassium carbonate	100	GR
Sodium carbonate- aqueous solution	10	GR
Gaseous chlorine	100	SA
Chloroform	100	SA
Alluminium chloride- aqueous solution	10	GR
Ammonium chloride- aqueous solution	10	GR
Barium chloride - aqueous solution	10	GR
Calcium chloride - aqueous solution	20	S
Calcium chloride - aqueous solution	10	GR
Ethyl chloride	100	GR
Magnesium chloride - aqueous solution	10	GR
Methylene chloride	100	MR
Sodium chloride - aqueous solution	10	GR
Thionylchloride		SA
Vinyl chloride	100	GR

AGENTS	%	
Zinc chloride	10	MR
Ferric chloride - aqueous solution		GR
Mercuric chloride	10	LA
Cyclohexane	6	GR
Cyclohexanol	100	GR
Decaline	100	GR
Dichlorofluoro Ethylene (see Freon)		GR
Dimethyl formamide		GR
Dioxane	100	GR
Heptane		GR
Hexane		GR
Anise oil		GR
Clove oil		GR
Lavander oil		GR
Mint oil	100	GR
Rose oil		GR
Violet oil		GR
Petroleum ether		GR
Ethyl ether		GR
Phenol - aqueous solution	100	SA
Molten phenol		GR
Formaldehyde -aqueous solution	100	GR
Freon 12 -liquid	30	GR
Butyl phthalate		GR
Octyl phthalate		GR
Glycerine		GR
Ethylene glycol		GR
Fats		GR
Hydrogen sulphide -aqueous solution	saturated	GR
Sodium hypochlorite -aqueous solution		LA
Iso-octane		GR
Milk		GR
Mercury		GR
Naphthalene		GR
Silver nitrate		GR
Potassium nitrate - aqueous solution		GR
Trifluoro ethanol	10	S
Sodium nitrate		GR
Nitrobenzene	10	MR
Nitromethane	100	GR
Oleum	100	S
Oils		GR
Cupra oil		GR
Flax oil		GR
Paraffin oil		GR
Silicone oil		GR
Diesel oil		GR
Mineral oil		GR
Oil for transformers		GR
Zinc oxide		GR
Ozone		SA
Perfumes		MR
Potassium permanganate - aqueous solution		SA
Oil	1	GR
Potash - aqueous solution	50	MR
Potash - aqueous solution	10	GR
Potash - aqueous solution	5	GR
Sodium silicate		GR
Caustic soda -aqueous solution	50	MR
Caustic soda -aqueous solution	10	GR
Caustic soda -aqueous solution	5	GR
Aluminium sulphate - aqueous solution	10	GR
Copper sulphate -aqueous solution	10	GR
Sodium sulphate -aqueous solution	10	GR
Carbon disulphide - aqueous solution	v	GR
Potassium iodine and iodine solution	3	SA
Soap solution - aqueous solution		GR
Lead stearate	100	GR
Iodine tincture - alcoholic		SA
Carbon tetrachloride		GR
Tetrahydrophurane		GR
Tetralene		GR
Sodium thiosulphate -aqueous solution	10	GR
Toluene		GR
Trichloroethylene		MR
Triethanol amine		GR
Vaselina		GR
Wine		GR
Sulphur		GR
Xylene		GR

Serie normale (N)

Normal series (N)

INGRANAGGI CILINDRICI / SPUR GEARS

Angolo di pressione 20° / Pressure angle 20°

MATERIALE

Tecnopolimero a base poliammidica rinforzato con fibra vetro, colore: grigio.

DATI TECNICI

La coppia massima trasmissibile riportata in tabella è stata ottenuta tramite una metodologia (di proprietà Stagnoli) che nasce dalla congiunzione di calcoli teorici e dati sperimentali ottenuti tramite test a fatica sugli ingranaggi. Va considerato che, per applicazioni con velocità inferiori ai 100Rpm, con carichi statici, o con bassi fattori d'uso, la coppia ammissibile potrebbe aumentare anche del 50% rispetto ai valori riportati in tabella. Per approfondimenti vedere Appendice pag 64.

ESECUZIONE

Stampaggio ad iniezione, foro grezzo (per dettagli sulla lavorazione vedere Appendice pag 64).

MATERIAL

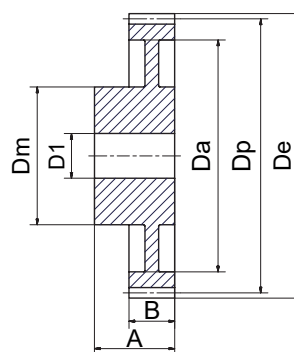
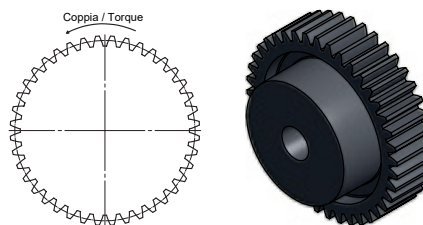
Polyamide-based technopolymer, reinforced with glass fiber, color: grey.

TECHNICAL DATA

As reported in the chart, the maximum applicable torque was obtained following a specific methodology (owned by Stagnoli) which is originated by the joining of theoretical calculations and experimental data obtained from test results yielded by fatigue tests on the gears. Consider that in case of static applications, or low RPM (<100), or applications with low use coefficient, the maximum applicable torque could be higher (up to 50%) than the reported data. See Appendix on page 67 for additional information.

PRODUCTION

Injection molding, rough bore (see Appendix pag 67 for details on the machining).



MODULO/MODULE	B	A
0,5	8	16
1	15	25
1,5	17	30
2	20	35
2,5	25	40
3	30	45
4	40	60

MODULO 0,5 / MODULE 0,5

COD.	M	Z	De	Dp	Dm	D1	Da	Torque (Nm)	STOCK
CL005024N	0,5	24	13	12	10	-	-	0,7	•
CL005025N	0,5	25	13,5	12,5	10	-	-	0,7	•
CL005030N	0,5	30	16	15	10	-	-	0,8	•
CL005032N	0,5	32	17	16	10	-	-	0,9	•
CL005036N	0,5	36	19	18	10	-	-	1,0	•
CL005040N	0,5	40	21	20	10	-	-	1,1	•
CL005045N	0,5	45	23,5	22,5	10	-	-	1,2	•
CL005048N	0,5	48	25	24	10	-	-	1,3	•
CL005050N	0,5	50	26	25	10	-	-	1,4	•
CL005055N	0,5	55	28,5	27,5	20	4	-	1,5	•
CL005060N	0,5	60	31	30	20	4	-	1,6	•
CL005070N	0,5	70	36	35	20	4	-	1,9	•
CL005080N	0,5	80	41	40	20	4	-	2,2	•
CL005100N	0,5	100	51	50	20	4	-	2,7	•
CL005120N	0,5	120	61	60	20	4	-	3,3	•
CL005150N	0,5	150	76	75	20	4	-	4,1	•

COD.	M	Z	De	Dp	Dm	D1	Da	Torque (Nm)	STOCK

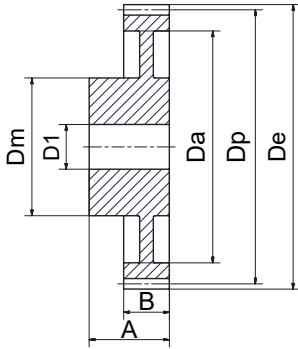


Serie normale (N)

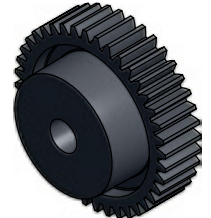
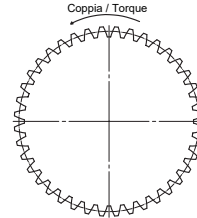
Normal series (N)

INGRANAGGI CILINDRICI / SPUR GEARS

Angolo di pressione 20° / Pressure angle 20°



MODULO/MODULE	B	A
0,5	8	16
1	15	25
1,5	17	30
2	20	35
2,5	25	40
3	30	45
4	40	60



MODULO 1 / MODULE 1

COD.	M	Z	De	Dp	Dm	D1	Da	Torque (Nm)	STOCK
CL01010N	1	10	12	10	12	-	-	2,0	•
CL01012N	1	12	14	12	9	4	-	2,5	•
CL01013N	1	13	15	13	10	4	-	2,7	•
CL01014N	1	14	16	14	10	4	-	2,9	•
CL01015N	1	15	17	15	10	4	-	3,1	•
CL01016N	1	16	18	16	13	5	-	3,3	•
CL01017N	1	17	19	17	14	5	-	3,5	•
CL01018N	1	18	20	18	14	5	-	3,7	•
CL01019N	1	19	21	19	14	5	-	3,9	•
CL01020N	1	20	22	20	16	5	-	4,1	•
CL01021N	1	21	23	21	16	5	-	4,3	•
CL01022N	1	22	24	22	18	5	-	4,5	•
CL01023N	1	23	25	23	18	6	-	4,7	•
CL01024N	1	24	26	24	20	6	-	4,9	•
CL01025N	1	25	27	25	20	6	-	5,1	•
CL01026N	1	26	28	26	22	6	-	5,3	•
CL01027N	1	27	29	27	22	6	-	5,5	•
CL01028N	1	28	30	28	22	6	-	5,7	•
CL01029N	1	29	31	29	25	6	-	5,9	•
CL01030N	1	30	32	30	25	6	-	6,1	•
CL01031N	1	31	33	31	25	6	-	6,3	•
CL01032N	1	32	34	32	25	6	-	6,6	•
CL01033N	1	33	35	33	25	6	-	6,8	•
CL01034N	1	34	36	34	30	8	-	7,0	•
CL01035N	1	35	37	35	30	8	-	7,2	•
CL01036N	1	36	38	36	30	8	-	7,4	•
CL01037N	1	37	39	37	30	8	-	7,6	•
CL01038N	1	38	40	38	30	8	-	7,8	•
CL01039N	1	39	41	39	30	8	-	8,0	•
CL01040N	1	40	42	40	30	8	-	8,2	•
CL01041N	1	41	43	41	30	8	-	8,4	•
CL01042N	1	42	44	42	35	10	-	8,6	•
CL01043N	1	43	45	43	35	10	-	8,8	v
CL01044N	1	44	46	44	35	10	-	9,0	•
CL01045N	1	45	47	45	35	10	-	9,2	•
CL01047N	1	47	49	47	35	10	-	9,6	•
CL01048N	1	48	50	48	35	10	-	9,8	•
CL01049N	1	49	51	49	35	10	-	10,0	•

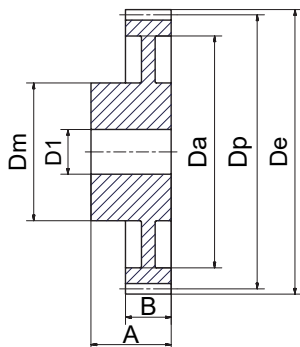
COD.	M	Z	De	Dp	Dm	D1	Da	Torque (Nm)	STOCK
CL01050N	1	50	52	50	35	10	-	10,2	•
CL01052N	1	52	54	52	35	14	44	10,7	•
CL01054N	1	54	56	54	35	14	44	11,2	•
CL01055N	1	55	57	55	35	14	44	11,3	•
CL01056N	1	56	58	56	35	14	44	11,5	•
CL01058N	1	58	60	58	35	14	44	11,9	•
CL01060N	1	60	62	60	40	14	51	12,3	•
CL01062N	1	62	64	62	40	14	51	12,7	•
CL01064N	1	64	66	64	40	14	51	13,1	•
CL01065N	1	65	67	65	40	20	51	13,3	•
CL01070N	1	70	72	70	40	20	61	14,3	•
CL01071N	1	71	73	71	40	20	61	14,5	•
CL01072N	1	72	74	72	40	20	61	14,7	•
CL01073N	1	73	75	73	40	20	61	15,0	•
CL01074N	1	74	76	74	40	20	61	15,2	•
CL01075N	1	75	77	75	50	20	66	15,4	•
CL01077N	1	77	79	77	50	20	66	15,8	•
CL01080N	1	80	82	80	50	20	66	16,4	•
CL01082N	1	82	84	82	50	20	66	16,7	•
CL01085N	1	85	87	85	50	20	66	17,4	•
CL01088N	1	88	90	88	50	20	66	18	•
CL01090N	1	90	92	90	50	20	80	18,4	•
CL01094N	1	94	96	94	50	20	80	19,2	•
CL01095N	1	95	97	95	50	20	80	19,5	•
CL01100N	1	100	102	100	50	20	87	20,5	•
CL01104N	1	104	106	104	50	20	93	21,3	•
CL01110N	1	110	112	110	50	20	93	22,5	•
CL01120N	1	120	122	120	50	20	109	24,6	•
CL01130N	1	130	132	130	50	20	109	26,6	•
CL01138N	1	138	140	138	50	20	109	28,3	•
CL01140N	1	140	142	140	50	20	109	28,6	•
CL01150N	1	150	152	150	50	20	139	30,7	•
CL01160N	1	160	162	160	50	20	139	32,8	•

Serie normale (N)

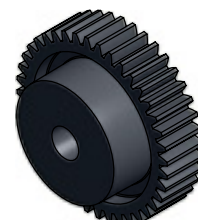
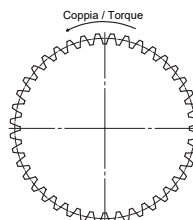
Normal series (N)

INGRANAGGI CILINDRICI / SPUR GEARS

Angolo di pressione 20° / Pressure angle 20°



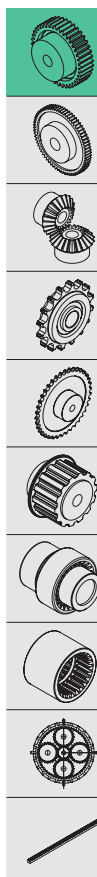
MODULO/MODULE	B	A
0,5	8	16
1	15	25
1,5	17	30
2	20	35
2,5	25	40
3	30	45
4	40	60



MODULO 1,5 / MODULE 1,5

COD.	M	Z	De	Dp	Dm	D1	Da	Torque (Nm)	STOCK
CL15012N	1,5	12	21	18	14	5	-	6,8	•
CL15013N	1,5	13	22,5	19,5	16	5	-	7,4	•
CL15014N	1,5	14	24	21	16	5	-	8,0	•
CL15015N	1,5	15	25,5	22,5	18	5	-	8,5	•
CL15016N	1,5	16	27	24	18	5	-	9,1	•
CL15017N	1,5	17	28,5	25,5	20	6	-	9,7	•
CL15018N	1,5	18	30	27	20	6	-	10,3	•
CL15019N	1,5	19	31,5	28,5	20	8	-	10,8	•
CL15020N	1,5	20	33	30	25	8	-	11,4	•
CL15021N	1,5	21	34,5	31,5	25	8	-	12,0	•
CL15022N	1,5	22	36	33	28	8	-	12,5	•
CL15023N	1,5	23	37,5	34,5	28	8	-	13,1	•
CL15024N	1,5	24	39	36	28	8	-	13,7	•
CL15025N	1,5	25	40,5	37,5	30	8	-	14,2	•
CL15026N	1,5	26	42	39	30	8	-	14,8	•
CL15027N	1,5	27	43,5	40,5	30	8	-	15,4	•
CL15028N	1,5	28	45	42	30	8	-	16,0	•
CL15029N	1,5	29	46,5	43,5	30	8	-	16,5	•
CL15030N	1,5	30	48	45	35	12	-	17,1	•
CL15031N	1,5	31	49,5	46,5	35	12	-	17,7	•
CL15032N	1,5	32	51	48	35	12	-	18,2	•
CL15033N	1,5	33	52,5	49,5	35	12	-	18,8	•
CL15034N	1,5	34	54	51	35	12	-	19,4	•
CL15035N	1,5	35	55,5	52,5	35	12	-	19,9	•
CL15036N	1,5	36	57	54	35	12	-	20,5	•
CL15037N	1,5	37	58,5	55,5	35	16	42	21,1	•
CL15038N	1,5	38	60	57	35	16	42	21,7	•
CL15039N	1,5	39	61,5	58,5	35	16	42	22,2	•
CL15040N	1,5	40	63	60	40	16	48	22,8	•
CL15042N	1,5	42	66	63	45	16	53	23,9	•
CL15043N	1,5	43	67,5	64,5	45	16	53	24,5	•
CL15044N	1,5	44	69	66	45	16	53	25,1	•
CL15045N	1,5	45	70,5	67,5	45	16	53	25,6	•
CL15046N	1,5	46	72	69	45	16	53	26,2	•
CL15047N	1,5	47	73,5	70,5	45	16	53	26,8	•
CL15048N	1,5	48	75	75	45	16	53	27,4	•
CL15050N	1,5	50	78	75	45	16	53	28,5	•
CL15051N	1,5	51	79,5	76,5	50	20	63	29,1	•

COD.	M	Z	De	Dp	Dm	D1	Da	Torque (Nm)	STOCK
CL15052N	1,5	52	81	78	50	20	63	29,6	•
CL15053N	1,5	53	82,5	79,5	50	20	63	30,2	•
CL15054N	1,5	54	84	81	50	20	63	30,8	•
CL15055N	1,5	55	85,5	82,5	50	20	63	31,3	•
CL15060N	1,5	60	93	90	55	20	73	34,2	•
CL15063N	1,5	63	97,5	94,5	60	20	81	35,9	•
CL15065N	1,5	65	100,5	97,5	60	20	81	37,0	•
CL15070N	1,5	70	108	105	60	20	93	39,9	•
CL15075N	1,5	75	115,5	112,5	60	20	93	42,7	•
CL15080N	1,5	80	123	120	60	20	109	45,6	•
CL15085N	1,5	85	130,5	127,5	60	20	109	48,4	•
CL15090N	1,5	90	138	135	60	20	109	51,3	•
CL15092N	1,5	92	141	138	60	20	109	52,4	•
CL15095N	1,5	95	145,5	142,5	60	20	127	54,1	•
CL15100N	1,5	100	153	150	60	20	127	57,0	•
CL15104N	1,5	104	159	156	60	20	127	59,3	•
CL15120N	1,5	120	183	180	60	20	160	68,4	•

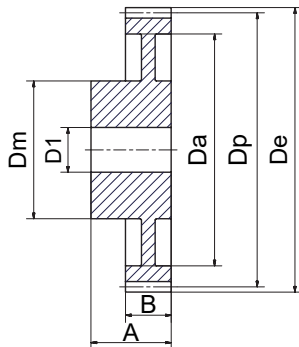


Serie normale (N)

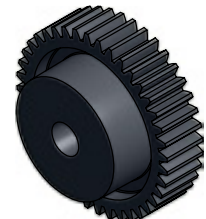
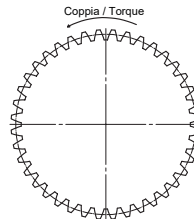
Normal series (N)

INGRANAGGI CILINDRICI / SPUR GEARS

Angolo di pressione 20° / Pressure angle 20°



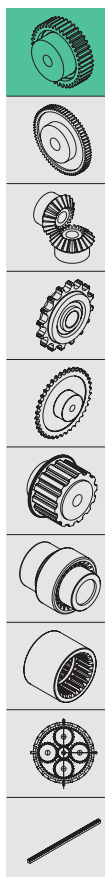
MODULO/MODULE	B	A
0,5	8	16
1	15	25
1,5	17	30
2	20	35
2,5	25	40
3	30	45
4	40	60



MODULO 2,5 / MODULE 2,5

COD.	M	Z	De	Dp	Dm	D1	Da	Torque (Nm)	STOCK
CL25012N	2,5	12	35	30	22	8	-	30,3	•
CL25014N	2,5	14	40	35	22	8	-	35,3	•
CL25015N	2,5	15	42,5	37,5	30	10	-	37,8	•
CL25016N	2,5	16	45	40	30	10	-	40,3	•
CL25017N	2,5	17	47,5	42,5	30	10	-	42,9	•
CL25018N	2,5	18	50	45	35	10	-	45,4	•
CL25019N	2,5	19	52,5	47,5	35	10	-	47,9	•
CL25020N	2,5	20	55	50	35	10	-	50,4	•
CL25021N	2,5	21	57,5	52,5	35	10	-	53,0	•
CL25022N	2,5	22	60	55	40	16	-	55,5	•
CL25023N	2,5	23	62,5	57,5	40	16	-	58,0	•
CL25024N	2,5	24	65	60	40	16	-	60,5	•
CL25025N	2,5	25	67,5	62,5	40	16	-	63,0	•
CL25026N	2,5	26	70	65	40	16	-	65,6	•
CL25027N	2,5	27	72,5	67,5	40	16	50	68,1	•
CL25028N	2,5	28	75	70	40	16	50	70,6	•
CL25029N	2,5	29	77,5	72,5	45	16	56	73,1	•
CL25030N	2,5	30	80	75	45	16	56	75,6	•
CL25031N	2,5	31	82,5	77,5	45	16	56	78,2	•
CL25032N	2,5	32	85	80	50	16	61	80,7	•
CL25033N	2,5	33	87,5	82,5	50	16	61	83,2	•
CL25034N	2,5	34	90	85	50	16	61	85,7	•
CL25035N	2,5	35	92,5	87,5	50	16	61	88,3	•
CL25036N	2,5	36	95	90	50	18	73	90,8	•
CL25037N	2,5	37	97,5	92,5	50	18	73	93,3	•
CL25038N	2,5	38	100	95	50	18	73	95,8	•
CL25039N	2,5	39	102,5	97,5	50	18	73	98,3	•
CL25040N	2,5	40	105	100	50	18	73	100,9	•
CL25042N	2,5	42	110	105	60	18	85	105,9	•
CL25043N	2,5	43	112,5	107,5	60	18	85	108,4	•
CL25045N	2,5	45	117,5	112,5	60	18	85	113,5	•
CL25050N	2,5	50	130	125	60	20	105	126,1	•
CL25054N	2,5	54	140	135	60	20	105	136,2	•
CL25055N	2,5	55	142,5	137,5	60	20	105	138,7	•
CL25057N	2,5	57	147,5	142,5	60	20	117	143,7	•
CL25060N	2,5	60	155	150	60	20	117	151,3	•
CL25090N	2,5	90	230	225	60	25	206	226,9	•

COD.	M	Z	De	Dp	Dm	D1	Da	Torque (Nm)	STOCK



Le U.M. non specificate sono da intendersi in [mm]
The U.M. if not specified are in [mm]

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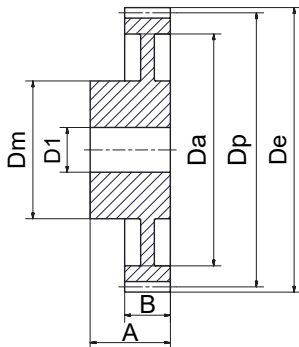


Serie normale (N)

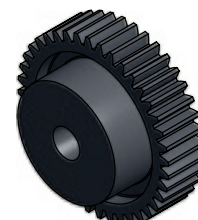
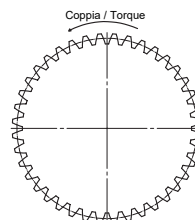
Normal series (N)

INGRANAGGI CILINDRICI / SPUR GEARS

Angolo di pressione 20° / Pressure angle 20°



MODULO/MODULE	B	A
0,5	8	16
1	15	25
1,5	17	30
2	20	35
2,5	25	40
3	30	45
4	40	60



MODULO 3 / MODULE 3

COD.	M	Z	De	Dp	Dm	D1	Da	Torque (Nm)	STOCK
CL03012N	3	12	42	36	25	12	-	52,3	•
CL03013N	3	13	45	39	28	12	-	56,6	•
CL03014N	3	14	48	42	30	12	-	61,0	•
CL03015N	3	15	51	45	30	12	-	65,4	•
CL03016N	3	16	54	48	35	12	-	69,7	•
CL03017N	3	17	57	51	40	12	-	74,1	•
CL03018N	3	18	60	54	40	12	-	78,4	•
CL03019N	3	19	63	57	40	12	-	82,8	•
CL03020N	3	20	66	60	45	12	-	87,1	•
CL03021N	3	21	69	63	45	16	-	91,5	•
CL03022N	3	22	72	66	45	16	-	95,9	•
CL03023N	3	23	75	69	45	16	-	100,2	•
CL03024N	3	24	78	72	45	16	-	104,6	•
CL03025N	3	25	81	75	45	16	-	108,9	•
CL03026N	3	26	84	78	45	16	-	113,3	•
CL03027N	3	27	87	81	45	16	-	117,6	•
CL03028N	3	28	90	84	50	16	65	122,0	•
CL03029N	3	29	93	87	50	16	65	126,4	•
CL03030N	3	30	96	90	50	16	65	130,7	•
CL03031N	3	31	99	93	50	16	65	135,1	•
CL03032N	3	32	102	96	50	16	73	139,4	•
CL03034N	3	34	108	102	50	16	73	148,1	•

COD.	M	Z	De	Dp	Dm	D1	Da	Torque (Nm)	STOCK
CL03035N	3	35	111	105	60	20	80	152,5	•
CL03036N	3	36	114	108	60	20	80	156,9	•
CL03037N	3	37	117	111	60	20	80	161,2	•
CL03038N	3	38	120	114	60	20	85	165,6	•
CL03039N	3	39	123	117	60	20	85	169,9	•
CL03040N	3	40	126	120	60	20	85	174,3	•
CL03041N	3	41	129	123	60	20	101	178,6	•
CL03042N	3	42	132	126	60	20	101	183,0	•
CL03043N	3	43	135	129	60	20	101	187,4	•
CL03044N	3	44	138	132	60	20	101	191,7	•
CL03045N	3	45	141	135	60	20	101	196,1	•
CL03046N	3	46	144	138	60	20	101	200,4	•
CL03047N	3	47	147	141	60	20	101	204,8	•
CL03048N	3	48	150	144	60	20	101	209,1	•
CL03049N	3	49	153	147	60	20	101	213,5	•
CL03050N	3	50	156	150	60	20	127	217,9	•
CL03052N	3	52	162	156	60	20	127	226,6	•
CL03054N	3	54	168	162	60	20	127	235,3	•
CL03055N	3	55	171	165	60	20	127	239,6	•
CL03057N	3	57	177	171	60	20	127	248,4	•
CL03060N	3	60	182	180	60	20	155	261,4	•

MODULO 4 / MODULE 4

COD.	M	Z	De	Dp	Dm	D1	Da	Torque (Nm)	STOCK
CL04012N	4	12	56	48	30	10	-	123,9	•
CL04016N	4	16	72	64	50	20	-	165,3	•

COD.	M	Z	De	Dp	Dm	D1	Da	Torque (Nm)	STOCK
CL04018N	4	18	80	72	50	20	-	185,9	•
CL04020N	4	20	88	80	60	20	-	206,6	•



Serie leggera

Light series (L)

INGRANAGGI CILINDRICI / SPUR GEARS

Angolo di pressione 20° / Pressure angle 20°

MATERIALE

Tecnopolimero a base poliammidica rinforzato con fibra vetro, colore: grigio.

DATI TECNICI

Rispetto alla serie normale, la riduzione della fascia dente, a parità di modulo, consente un'ulteriore diminuzione della massa favorendone la leggerezza.

La coppia massima trasmissibile riportata in tabella è stata ottenuta tramite una metodologia (di proprietà Stagnoli) che nasce dalla congiunzione di calcoli teorici e dati sperimentali ottenuti tramite test a fatica sugli ingranaggi. Va considerato che, per applicazioni con velocità inferiori ai 100Rpm, con carichi statici, o con bassi fattori d'uso, la coppia ammissibile potrebbe aumentare anche del 50% rispetto ai valori riportati in tabella. Per approfondimenti vedere Appendice pag 64.

ESECUZIONE

Stampaggio ad iniezione, foro grezzo (per dettagli sulla lavorazione vedere Appendice pag 64).

MATERIAL

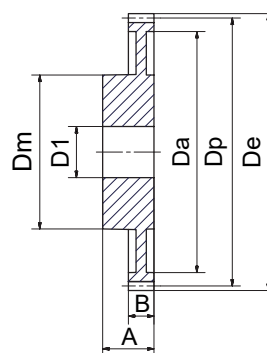
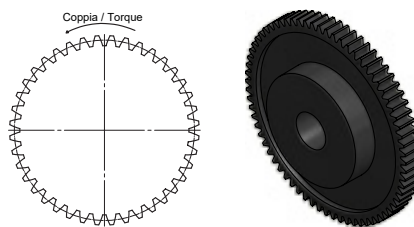
Polyamide-based technopolymer, reinforced with glass fiber, color: grey.

TECHNICAL DATA

Maintaining the same module, reducing the tooth width allows for an additional reduction of the mass, as compared with the normal series, making the gear lighter. As reported in the chart, the maximum applicable torque was obtained following a specific methodology (owned by Stagnoli) which is originated by the joining of theoretical calculations and experimental data obtained from test results yielded by fatigue tests on the gears. Consider that in case of static applications, or low RPM (<100), or applications with low use coefficient, the maximum applicable torque could be higher (up to 50%) than the reported data. See Appendix on page 67 for additional information

PRODUCTION

Injection molding, rough bore (see Appendix pag 67 for details on the machining).



MODULO/MODULE	A	B
1	16	8
1,5	20	10
3	35	20
4	42	22

MODULO 1 / MODULE 1

COD.	M	Z	De	Dp	Dm	D1	Da	Torque (Nm)	STOCK
CL01010L	1	10	12	10	12	-	-	1,1	•
CL01012L	1	12	14	12	9	-	-	1,3	•
CL01013L	1	13	15	13	10	4	-	1,4	•
CL01014L	1	14	16	14	10	4	-	1,5	•
CL01015L	1	15	17	15	10	4	-	1,6	•
CL01016L	1	16	18	16	10	4	-	1,7	•
CL01017L	1	17	19	17	14	5	-	1,9	•
CL01018L	1	18	20	18	14	5	-	2,0	•
CL01020L	1	20	22	20	16	5	-	2,2	•
CL01021L	1	21	23	21	16	5	-	2,3	•
CL01022L	1	22	24	22	18	6	-	2,4	•
CL01025L	1	25	27	25	20	6	-	2,7	•
CL01026L	1	26	28	26	20	6	-	2,8	•
CL01028L	1	28	30	28	22	8	-	3,1	•
CL01029L	1	29	31	29	25	8	-	3,2	•
CL01030L	1	30	32	30	25	8	-	3,3	•
CL01032L	1	32	34	32	25	8	-	3,5	•
CL01033L	1	33	35	33	25	8	-	3,6	•
CL01035L	1	35	37	35	25	8	-	3,8	•
CL01036L	1	36	38	36	25	8	-	3,9	•

COD.	M	Z	De	Dp	Dm	D1	Da	Torque (Nm)	STOCK
CL01040L	1	40	42	40	25	8	-	4,4	•
CL01045L	1	45	47	45	35	8	-	4,9	•
CL01050L	1	50	52	50	35	8	-	5,5	•
CL01054L	1	54	56	54	35	8	-	5,9	•
CL01055L	1	55	57	55	40	10	-	6,0	•
CL01056L	1	56	58	56	40	10	45	6,1	•
CL01058L	1	58	60	58	40	10	-	6,3	•
CL01060L	1	60	62	60	40	10	-	6,6	•
CL01065L	1	65	67	65	40	14	-	7,1	•
CL01070L	1	70	72	70	40	14	-	7,6	•
CL01072L	1	72	74	72	40	14	61	7,9	•
CL01075L	1	75	77	75	40	14	61	8,2	•
CL01080L	1	80	82	80	40	20	61	8,7	•
CL01085L	1	85	87	85	40	20	61	9,3	•
CL01090L	1	90	92	90	50	20	68	9,8	•

Le U.M. non specificate sono da intendersi in [mm]
The U.M. if not specified are in [mm]

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25

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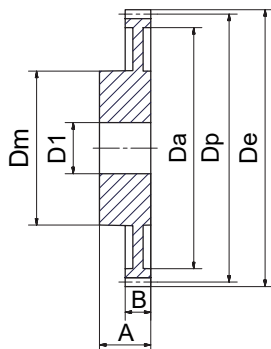


Serie leggera

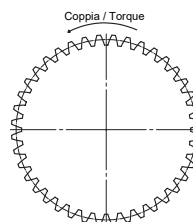
Light series (L)

INGRANAGGI CILINDRICI / SPUR GEARS

Angolo di pressione 20° / Pressure angle 20°



MODULO/MODULE	A	B
1	16	8
1,5	20	10
3	35	20
4	42	22



MODULO 1,5 / MODULE 1,5

COD.	M	Z	De	Dp	Dm	D1	Da	Torque (Nm)	STOCK
CL15010L	1,5	10	18	15	18	8	-	2,8	
CL15015L	1,5	15	25,5	22,5	18	6	-	4,2	
CL15016L	1,5	16	27	24	18	6	-	4,5	
CL15017L	1,5	17	28,5	25,5	18	6	-	4,7	
CL15018L	1,5	18	30	27	20	6	-	5,0	
CL15020L	1,5	20	33	30	20	6	-	5,6	
CL15024L	1,5	24	39	36	20	6	-	6,7	•
CL15025L	1,5	25	37,5	40,5	20	6	-	7,0	•
CL15030L	1,5	30	48	45	30	10	-	8,4	•
CL15032L	1,5	32	51	48	30	10	-	8,9	•

COD.	M	Z	De	Dp	Dm	D1	Da	Torque (Nm)	STOCK
CL15033L	1,5	33	52,5	49,5	30	10	-	9,2	-
CL15035L	1,5	35	55,5	52,5	30	10	-	9,8	•
CL15036L	1,5	36	57	54	30	10	-	10,1	•
CL15040L	1,5	40	63	60	30	10	-	11,2	•
CL15042L	1,5	42	66	63	30	10	-	11,7	•
CL15045L	1,5	45	70,5	67,5	30	10	-	12,6	•
CL15050L	1,5	50	78	75	50	16	64	14,0	•
CL15054L	1,5	54	84	81	50	16	64	15,1	•
CL15070L	1,5	70	108	105	60	20	94	19,6	•

MODULO 3 / MODULE 3

COD.	M	Z	De	Dp	Dm	D1	Da	Torque (Nm)	STOCK
CL03037L	3	37	117	111	60	20	84	107,5	•
CL03043L	3	43	135	129	60	20	101	124,9	•

COD.	M	Z	De	Dp	Dm	D1	Da	Torque (Nm)	STOCK

MODULO 4 / MODULE 4

COD.	M	Z	De	Dp	Dm	D1	Da	Torque (Nm)	STOCK
CL04017L	4	17	76	68	50	20	-	96,6	•
CL04019L	4	19	84	76	50	20	-	107,9	•

COD.	M	Z	De	Dp	Dm	D1	Da	Torque (Nm)	STOCK

