# 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.

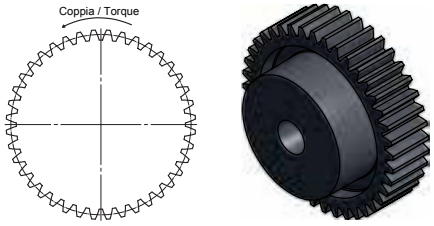
DATI TECNICI
La coppia massima trasmissibile riportata in tabella è stata ottenuta tramite una metodologia (di proprietà Stagnoli) che nasce dallla congiunzione di calcoli teorici e dati sperimentali ottenuti tramite test a fatica sugli ingranaggi. Va considerato che, per applicazioni con velocità inferiori 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.

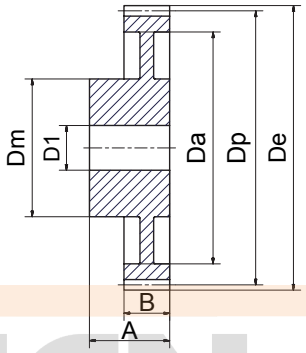
ESECUZIONE
Stampaggio ad iniezione, foro grezzo (per dettagli sulla lavorazione vedere Appendice pag 64).

*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 |
|---|---|---|---|---|---|---|---|---|---|



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



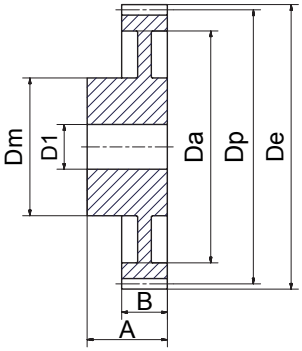
3D disponibili, richiedili via mail
*3D available, request them by mail*

# Serie normale (N)

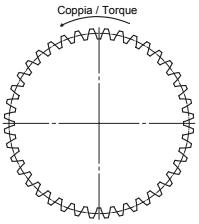
*Normal series (N)*

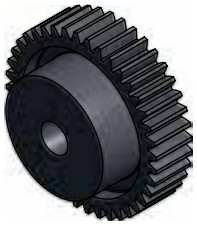
## INGRANAGGI **CILINDRICI** / ***SPUR*** *GEARS*

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 | • |





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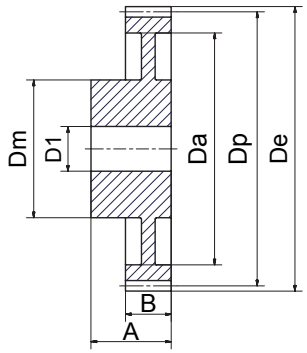
*The U.M. if not specified are in [mm]*

# Serie normale (N)

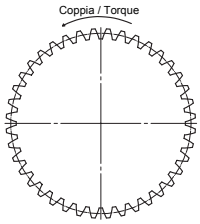
*Normal series (N)*

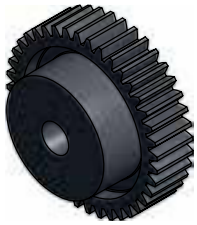
## INGRANAGGI **CILINDRICI** / ***SPUR*** *GEARS*

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 | • |





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



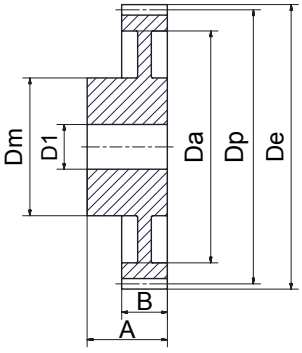
3D disponibili, richiedili via mail
*3D available, request them by mail*

# Serie normale (N)

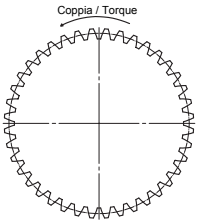
*Normal series (N)*

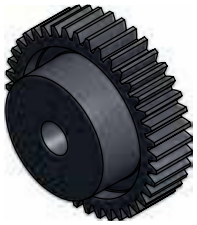
## INGRANAGGI **CILINDRICI** / ***SPUR*** *GEARS*

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** / MODULE **2**

| COD. | M | Z | De | Dp | Dm | D1 | Da | Torque (Nm) | STOCK |
|---|---|---|---|---|---|---|---|---|---|
| CL02012N | 2 | 12 | 28 | 24 | 18 | 8 | - | 15,5 | • |
| CL02013N | 2 | 13 | 30 | 26 | 18 | 8 | - | 16,8 | • |
| CL02014N | 2 | 14 | 32 | 28 | 20 | 8 | - | 18,1 | • |
| CL02015N | 2 | 15 | 34 | 30 | 22 | 8 | - | 19,4 | • |
| CL02016N | 2 | 16 | 36 | 32 | 25 | 8 | - | 20,7 | • |
| CL02017N | 2 | 17 | 38 | 34 | 25 | 8 | - | 21,9 | • |
| CL02018N | 2 | 18 | 40 | 36 | 30 | 10 | - | 23,2 | • |
| CL02019N | 2 | 19 | 42 | 38 | 30 | 10 | - | 24,5 | • |
| CL02020N | 2 | 20 | 44 | 40 | 30 | 10 | - | 25,8 | • |
| CL02021N | 2 | 21 | 46 | 42 | 30 | 10 | - | 27,1 | • |
| CL02022N | 2 | 22 | 48 | 44 | 30 | 10 | - | 28,4 | • |
| CL02023N | 2 | 23 | 50 | 46 | 35 | 10 | - | 29,7 | • |
| CL02024N | 2 | 24 | 52 | 48 | 35 | 10 | - | 31,0 | • |
| CL02025N | 2 | 25 | 54 | 50 | 35 | 10 | - | 32,3 | • |
| CL02026N | 2 | 26 | 56 | 52 | 40 | 14 | - | 33,6 | • |
| CL02027N | 2 | 27 | 58 | 54 | 40 | 14 | - | 34,9 | • |
| CL02028N | 2 | 28 | 60 | 56 | 40 | 14 | - | 36,1 | • |
| CL02029N | 2 | 29 | 62 | 58 | 40 | 14 | - | 37,4 | • |
| CL02030N | 2 | 30 | 64 | 60 | 40 | 14 | - | 38,7 | • |
| CL02031N | 2 | 31 | 66 | 62 | 40 | 14 | 48 | 40,0 | • |
| CL02032N | 2 | 32 | 68 | 64 | 45 | 16 | 51 | 41,3 | • |
| CL02033N | 2 | 33 | 70 | 66 | 45 | 16 | 51 | 42,6 | • |
| CL02034N | 2 | 34 | 72 | 68 | 45 | 16 | 51 | 43,9 | • |
| CL02035N | 2 | 35 | 74 | 70 | 45 | 16 | 51 | 45,2 | • |
| CL02036N | 2 | 36 | 76 | 72 | 50 | 16 | 59 | 46,5 | • |
| CL02037N | 2 | 37 | 78 | 74 | 50 | 16 | 59 | 47,8 | • |
| CL02038N | 2 | 38 | 80 | 76 | 50 | 16 | 59 | 49,1 | • |
| CL02039N | 2 | 39 | 82 | 78 | 50 | 16 | 59 | 50,4 | • |
| CL02040N | 2 | 40 | 84 | 80 | 55 | 16 | 66 | 51,6 | • |
| CL02041N | 2 | 41 | 86 | 82 | 55 | 16 | 66 | 52,9 | • |
| CL02042N | 2 | 42 | 88 | 84 | 55 | 16 | 66 | 54,2 | • |
| CL02043N | 2 | 43 | 90 | 86 | 55 | 16 | 66 | 55,5 | • |
| CL02044N | 2 | 44 | 92 | 88 | 60 | 16 | 68 | 56,8 | • |
| CL02045N | 2 | 45 | 94 | 90 | 60 | 16 | 68 | 58,1 | • |
| CL02046N | 2 | 46 | 96 | 92 | 60 | 16 | 75 | 59,4 | • |
| CL02047N | 2 | 47 | 98 | 94 | 60 | 16 | 75 | 60,7 | • |
| CL02048N | 2 | 48 | 100 | 96 | 60 | 16 | 75 | 62,0 | • |
| CL02049N | 2 | 49 | 102 | 98 | 60 | 16 | 84 | 63,3 | • |
| CL02050N | 2 | 50 | 104 | 100 | 60 | 20 | 84 | 64,6 | • |
| CL02051N | 2 | 51 | 106 | 102 | 60 | 20 | 90 | 65,8 | • |
| CL02052N | 2 | 52 | 108 | 104 | 60 | 20 | 90 | 67,1 | • |
| CL02053N | 2 | 53 | 110 | 106 | 60 | 20 | 90 | 68,4 | • |
| CL02054N | 2 | 54 | 112 | 108 | 60 | 20 | 90 | 69,7 | • |
| CL02055N | 2 | 55 | 114 | 110 | 60 | 20 | 90 | 71,0 | • |
| CL02056N | 2 | 56 | 116 | 112 | 60 | 20 | 90 | 72,3 | • |
| CL02057N | 2 | 57 | 118 | 114 | 60 | 20 | 90 | 73,6 | • |
| CL02058N | 2 | 58 | 120 | 116 | 60 | 20 | 90 | 74,9 | • |

| COD. | M | Z | De | Dp | Dm | D1 | Da | Torque (Nm) | STOCK |
|---|---|---|---|---|---|---|---|---|---|
| CL02059N | 2 | 59 | 122 | 118 | 60 | 20 | 90 | 76,2 | • |
| CL02060N | 2 | 60 | 124 | 120 | 60 | 20 | 101 | 77,5 | • |
| CL02061N | 2 | 61 | 126 | 122 | 60 | 20 | 101 | 78,8 | • |
| CL02062N | 2 | 62 | 128 | 124 | 60 | 20 | 101 | 80,0 | • |
| CL02063N | 2 | 63 | 130 | 126 | 60 | 20 | 101 | 81,3 | • |
| CL02064N | 2 | 64 | 132 | 128 | 60 | 20 | 101 | 82,6 | • |
| CL02065N | 2 | 65 | 134 | 130 | 60 | 20 | 101 | 83,9 | • |
| CL02066N | 2 | 66 | 136 | 132 | 60 | 20 | 101 | 85,2 | • |
| CL02067N | 2 | 67 | 138 | 134 | 60 | 20 | 101 | 86,5 | • |
| CL02068N | 2 | 68 | 140 | 136 | 60 | 20 | 101 | 87,8 | • |
| CL02069N | 2 | 69 | 142 | 138 | 60 | 20 | 117 | 89,1 | • |
| CL02070N | 2 | 70 | 144 | 140 | 60 | 20 | 117 | 90,4 | • |
| CL02071N | 2 | 71 | 146 | 142 | 60 | 20 | 117 | 91,7 | • |
| CL02072N | 2 | 72 | 148 | 144 | 60 | 20 | 117 | 93,0 | • |
| CL02073N | 2 | 73 | 150 | 146 | 60 | 20 | 117 | 94,2 | • |
| CL02074N | 2 | 74 | 152 | 148 | 60 | 20 | 117 | 95,5 | • |
| CL02075N | 2 | 75 | 154 | 150 | 60 | 20 | 117 | 96,8 | • |
| CL02076N | 2 | 76 | 156 | 152 | 60 | 20 | 117 | 98,1 | • |
| CL02077N | 2 | 77 | 158 | 154 | 60 | 20 | 117 | 99,4 | • |
| CL02078N | 2 | 78 | 160 | 156 | 60 | 20 | 117 | 100,7 | • |
| CL02079N | 2 | 79 | 162 | 158 | 60 | 20 | 117 | 102,0 | • |
| CL02080N | 2 | 80 | 164 | 160 | 60 | 20 | 117 | 103,3 | • |
| CL02081N | 2 | 81 | 166 | 162 | 60 | 20 | 117 | 104,6 | • |
| CL02082N | 2 | 82 | 168 | 164 | 60 | 20 | 147 | 105,9 | • |
| CL02083N | 2 | 83 | 170 | 166 | 60 | 20 | 147 | 107,2 | • |
| CL02084N | 2 | 84 | 172 | 168 | 60 | 20 | 147 | 108,4 | • |
| CL02085N | 2 | 85 | 174 | 170 | 60 | 20 | 147 | 109,7 | • |
| CL02086N | 2 | 86 | 176 | 172 | 60 | 20 | 147 | 111,0 | • |
| CL02087N | 2 | 87 | 178 | 174 | 60 | 20 | 147 | 112,3 | • |
| CL02088N | 2 | 88 | 180 | 176 | 60 | 20 | 147 | 113,6 | • |
| CL02089N | 2 | 89 | 182 | 178 | 60 | 20 | 147 | 114,9 | • |
| CL02090N | 2 | 90 | 184 | 180 | 60 | 20 | 147 | 116,2 | • |
| CL02091N | 2 | 91 | 186 | 182 | 60 | 20 | 167 | 117,5 | • |
| CL02092N | 2 | 92 | 188 | 184 | 60 | 20 | 167 | 118,8 | • |
| CL02093N | 2 | 93 | 190 | 186 | 60 | 20 | 167 | 120,1 | • |
| CL02094N | 2 | 94 | 192 | 188 | 60 | 20 | 173 | 121,4 | • |
| CL02095N | 2 | 95 | 194 | 190 | 60 | 20 | 173 | 122,6 | • |
| CL02096N | 2 | 96 | 196 | 192 | 60 | 25 | 173 | 123,9 | • |
| CL02097N | 2 | 97 | 198 | 194 | 60 | 25 | 179 | 125,2 | • |
| CL02098N | 2 | 98 | 200 | 196 | 60 | 25 | 179 | 126,5 | • |
| CL02099N | 2 | 99 | 202 | 198 | 60 | 25 | 179 | 127,8 | • |
| CL02100N | 2 | 100 | 204 | 200 | 60 | 25 | 183 | 129,1 | • |
| CL02104N | 2 | 104 | 212 | 208 | 60 | 25 | 183 | 134,3 | - |
| CL02105N | 2 | 105 | 214 | 210 | 60 | 25 | 183 | 135,6 | • |
| CL02110N | 2 | 110 | 224 | 220 | 60 | 25 | 205 | 142,0 | - |
| CL02112N | 2 | 112 | 228 | 224 | 60 | 25 | 205 | 144,6 | • |
| CL02120N | 2 | 120 | 244 | 240 | 60 | 25 | 205 | 154,9 | - |
| CL02126N | 2 | 126 | 256 | 252 | 60 | 25 | 237 | 162,7 | • |





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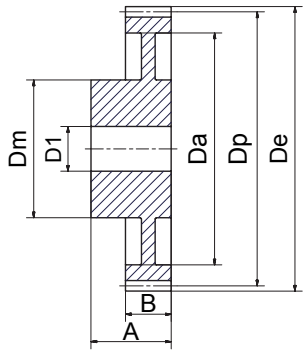
Le U.M. non specificate sono da intendersi in [mm]
*The U.M. if not specified are in [mm]*

# Serie normale (N)

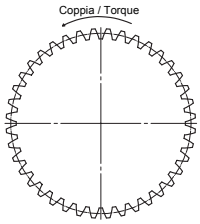
*Normal series (N)*

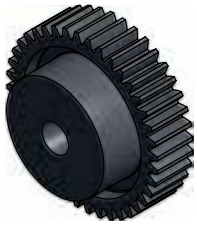
## INGRANAGGI **CILINDRICI** / ***SPUR*** *GEARS*

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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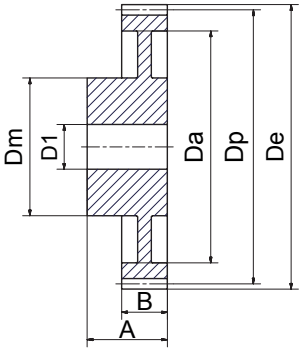
# Serie normale (N)

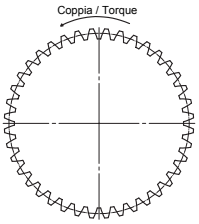
*Normal series (N)*

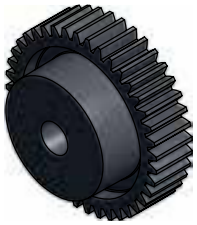
## INGRANAGGI **CILINDRICI** / ***SPUR*** *GEARS*

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 | • |





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*The U.M. if not specified are in [mm]*