



BEVEL GEAR WITH STRAIGHT TEETH
SPECIAL CH EXECUTION
GLEASON SYSTEM



SPIRALS BEVEL GEARS



BEVEL GEAR WITH STRAIGHT TEETH
STANDARD EXECUTION



SPIRALS BEVEL GEARS
GLEASON SYSTEM



BEVEL GEARS

The range of bevel gear showed in the catalogue is a selection structured according to transmission module and ratio, which is designed to meet the needs of general plant engineering and general mechanics to transmit motion among concurrent axes.

As such the range does not claim to guarantee particularly heavyduty performance or to cater for ratio ranges that extend to cover every need.

The external configuration of the bevel gear complies with the sizing criteria as established by the

DIN 3971 Standards,

while the tooth geometry, corrected by displacing the profiles and by varying the taper, is a specific solution exclusive to CHIARAVALLI GROUP SpA.

This solution, provides special advantages since:

- the coupling conditions between the pinion and the ring gear are improved;
- a smoother motion transmission is assured;
- tooth resistance is increased;
- the undercut effect on the pinion is avoided, even in the case of high transmission ratios and pinions with a limited number of teeth.

Since these refer to a selection of gears intended to be used in a broad range of applications, CHIARAVALLI GROUP SpA, continuing a tradition that has now become firmly established, has defined a standardised tolerance category for the processing of the Company's range of bevel gear, which means that there is a controlled gearing gap between the wheels.

The requirements detailed in the

DIN 3967 Standards

adapted to the virtual teeth profile of the bevel gear and the recommendations of the

DIN 3964 Standards

to calculate the corresponding axial displacements for the assembly distances have been used for this purpose.

We are therefore in a position to provide the end user precise information regarding the tolerances to be adopted to define shaving adjustments to a given clearance, in accordance with the values detailed in the dimensional tables.

All the bevel gears manufactured by CHIARAVALLI GROUP SpA will be produced in accordance with the profile envelope procedure on modern gear cutting machines, which enables CHIARAVALLI GROUP SpA to ensure a satisfactory quality level thanks to the systematic checking of processing tolerances.

For this technological sector too, the equipment and the range of machines available to CHIARAVALLI GROUP SpA enables the Company to produce bevel gears based on a drawing and in accordance with the Customer's specifications.





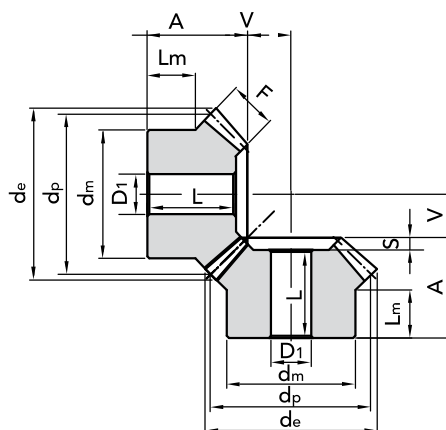
BEVEL GEARS WITH STRAIGHT TEETH



RATIO 1:1

Pressure angle: 20°
with normal axes in compliance to
UNI 6588

Teeth according to DIN 3967



Технические характеристики													
M	Z	PART NUMBER	d _p	d _e	F	A	d _m	D ₁	L	V	S	L _m	Kg
1.5	16	35151116	24,0	26,12	6	18,9	20,3	8	-	7,10	-	12	0,03
	20	32151120	30,0	32,12	10	20	22	10	18	7,40	2	8,5	0,05
	25	32151125	37,5	39,62	10	23	28	10	21	11,09	2	12	0,10
	30	32151130	45,0	47,12	12	25	30	12	22,5	13,35	2,5	12	0,15
2	16	35201116	32,0	34,83	8	23,5	25,3	8	-	9,50	-	14	0,06
	20	32201120	40,0	42,83	12	25	32	10	22	10,78	3	11,7	0,14
	25	32201125	50,0	52,82	14	28	40	12	25	14,28	3	12,3	0,25
	30	32201130	60,0	62,83	16	30	50	12	27	17,78	3	12,8	0,41
2.5	16	35251116	40,0	43,53	10	28,1	30,3	12	-	11,90	-	15	0,13
	20	32251120	50,0	53,53	12	30,5	40	12	27	15,43	3,5	16	0,27
	25	32251125	62,5	66	15	33,5	50	15	30	19,48	3,5	16	0,47
	30	32251130	75,0	78,53	18	35,5	55	15	32	23,63	3,5	16	0,69
3	16	35301116	48,0	52,25	12	31,7	40,3	12	-	14,30	-	18	0,24
	20	32301120	60,0	64,24	18	35	45	15	31	16,00	4	13,6	0,41
	25	32301125	75,0	79,24	20	38	55	15	34	22,00	4	16	0,72
	30	32301130	90,0	94,24	22	40	60	20	36	28,00	4	17	0,99
3.5	16	35351116	56,0	60,95	14	36,4	45,3	16	-	16,60	-	20	0,38
	20	32351120	70,0	74,95	22	40,5	55	15	36	18,13	4,5	16,1	0,68
	25	32351125	87,5	92,45	26	43,5	65	20	39	23,97	4,5	18	1,10
	30	32351130	105,0	109,95	30	48	70	20	43,5	30,02	4,5	19	1,61
4	16	35401116	64,0	69,65	15	44,3	50,3	16	-	19,70	-	25	0,52
	20	32401120	80,0	85,65	25	43	60	18	38	20,74	5	18	0,90
	25	32401125	100,0	105,65	28	45	70	20	40	28,50	5	18	1,45
	30	32401130	120,0	125,65	32	48	80	20	43	35,67	5	16	2,66
4.5	16	35451116	72,0	78,38	17,5	46,3	55,3	20	-	21,70	-	25	0,73
	20	32451120	90,0	96,38	28	48	65	20	42	23,41	6	18	1,25
	25	32451125	112,5	118,8	32	50	75	20	44	31,76	6	18	2,04
	30	32451130	135,0	141,38	35	53	90	20	47	40,82	6	17	3,24
5	16	35501116	80,0	87,07	18	48,9	60,3	20	-	25,10	-	25	0,94
	20	32501120	100,0	107,07	30	50,5	70	20	44	26,86	6,5	18,5	1,61
	25	32501125	125,0	132,07	34	53,5	90	20	47	36,36	6,5	18	2,94
	30	32501130	150,0	157,07	38	56,5	110	20	50	45,97	6,5	18	4,46

MATERIAL C 45 UNI 7847

CAD drawings available on our site
www.chiaravalli.com

Quantity, availability and prices on B2B Chiaravalli



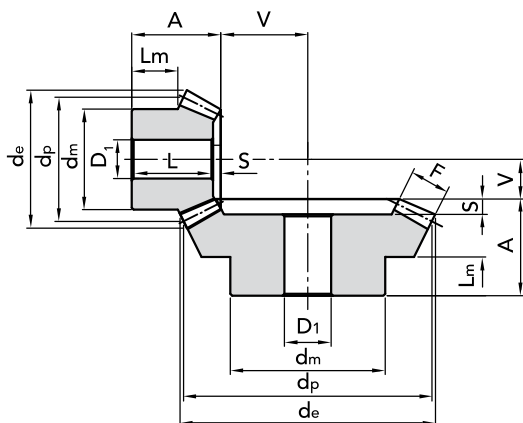


BEVEL GEAR WITH STRAIGHT TEETH **RATIO 1:2**

RATIO 1:2

Pressure angle: 20°
with normal axes in compliance to
UNI 6588

Teeth according to DIN 3967



Technical specifications of the product													
M	Z	PART NUMBER	d _p	d _e	F	A	d _m	D ₁	L	V	S	L _m	Kg
1,5	16	32151216	24,0	26,68	8	19,5	21	10	18	16,33	1,5	11,3	0,04
	32	33151232	48,0	49,34	8	20	32	12	17	7,45	3	10	0,14
2	16	32201216	32,0	35,57	10	23	26	10	21	22,41	2	11,9	0,09
	32	33201232	64,0	65,78	10	25	40	12	21	10,21	4	10	0,14
2,5	16	32251216	40,0	44,47	12	27,5	34	12	25	28,38	2,5	14,4	0,16
	32	33251232	80,0	82,23	12	25	50	15	20	12,97	5	10	0,59
3	16	32301216	48,0	53,36	15	28	40	15	25	33,64	3	11,6	0,23
	32	33301232	96,0	98,68	15	30	60	15	24	15,31	6	10	1,05
3,5	16	32351216	56,0	62,26	18	33,5	48	15	30	38,83	3,5	14,4	0,40
	32	33351232	112,0	115,12	18	31	70	20	24	17,77	7	10	1,57
4	16	32401216	64,0	71,15	20	36	50	15	32	44,81	4	13,4	0,49
	32	33401232	128,0	131,57	20	32	80	20	24	20,42	8	10	2,29
4,5	16	32451216	72,0	80,05	22	39,5	60	20	35	51,00	4,5	15,4	0,75
	32	33451232	144,0	148	22	36	90	20	27	23,21	9	10	2,99
5	16	32501216	80,0	88,94	25	50	60	20	45	56,06	5	21,1	1,07
	32	33501232	160,0	164,46	25	38	100	20	28	25,52	10	10	3,95

MATERIAL C 45 UNI 7847

CAD drawings available on our site
www.chiaravalli.com

Quantity, availability and prices on B2B Chiaravalli





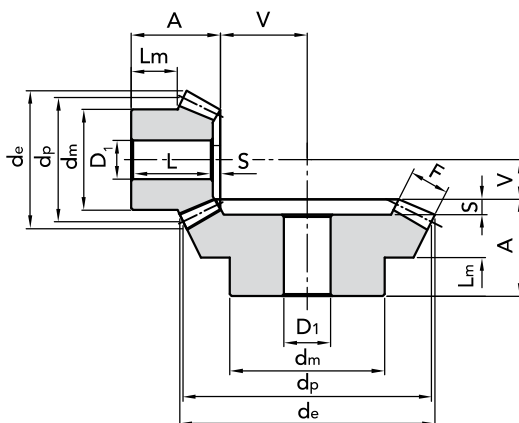
BEVEL GEAR WITH STRAIGHT TEETH norm DIN 3967

7

RATIO 1:3

Pressure angle: 20°
with normal axes in compliance to
UNI 6588

Teeth according to DIN 3967



M	Z	PART NUMBER	d _p	d _e	F	A	d _m	D ₁	L	V	S	L _m	Kg
1,5	16	32151316	24,0	26,82	12	24	20	10	23	24,32	1	11,7	0,04
	48	33151348	72,0	72,95	12	20	50	12	17	7,27	3	10	0,31
2	16	32201316	32,0	35,8	15	28,5	26	12	27	33,26	1,5	12,4	0,08
	48	33201348	96,0	97,26	15	23	60	15	19	9,90	4	10	0,67
2,5	16	32251316	40,0	44,74	18	32	32	12	30	42,41	1,5	13	0,15
	48	33251348	120,0	121,58	18	26	70	20	21	12,60	5	10	1,22
3	16	32301316	48,0	53,69	18	32	40	15	30	54,25	2	12,1	0,27
	48	33301348	144,0	145,9	18	29	80	20	23	16,20	6	10	2,01
3,5	16	32351316	56,0	62,64	22	38	48	15	35,5	62,29	2,5	15	0,45
	48	33351348	168,0	170,21	22	31	90	20	24	18,48	7	10	3,08
4	16	32401316	64,0	71,59	25	41,5	55	20	38,5	71,23	3	15,2	0,67
	48	33401348	192,0	194,53	25	33	100	20	25	21,20	8	10	4,40
4,5	16	32451316	72,0	80,53	28	53	60	20	50	80,27	3	23,4	1,05
	48	33451348	216,0	218,84	28	49	100	20	40	23,93	9	18	7,23
5	16	32501316	80,0	89,48	35	60	60	20	57	85,61	3	22,5	1,38
	48	33501348	240,0	243,16	35	50	150	20	40	25,45	10	20	8,72

BEVEL GEAR WITH STRAIGHT TEETH RATIO 1:3

6

MATERIAL C 45 UNI 7847

CAD drawings available on our site
www.chiaravalli.com

Quantity, availability and prices
on B2B Chiaravalli



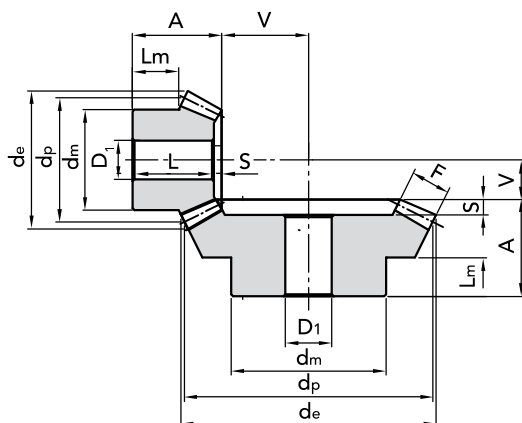


BEVEL GEAR WITH STRAIGHT TEETH RATIO 1:4

RATIO 1:4

Pressure angle: 20°
with normal axes in compliance to
UNI 6588

Teeth according to DIN 3967

[illegible]

MATERIAL C 45 UNI 7847

CAD drawings available on our site
www.chiaravalli.com

Quantity, availability and prices on B2B Chiaravalli





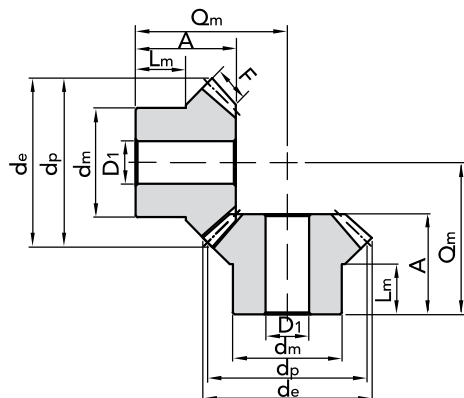
BEVEL GEAR WITH STRAIGHT TEETH SPECIAL CH EXECUTION GLEASON SYSTEM

9

RATIO 1:1

Normal axis

Pressure angle: 20°

GLEASON SYSTEM


M	Z	PART NUMBER	d _p	d _e	F	A	d _m	D ₁	V	L _m	Kg
1	16	35101116	16	17,4	4	11,2	13,3	4	4,8	6,5	0,02
	19	35101119	19	20,4	4	11,8	15,3	4	6,2	6,5	0,02
	22	35101122	22	23,4	4,7	12,8	16,3	5	7,2	6,5	0,02
	26	35101126	26	27,4	5,5	13,3	20,3	5	8,7	7	0,04
	30	35101130	30	31,4	6,4	16	20,3	5	10	8	0,05
1,5	16	35151116	24	26,1	6	18,9	20,3	8	7,1	12	0,04
	19	35151119	28,5	30,6	7	21,3	20,3	8	8,7	12	0,05
	22	35151122	33	35,1	7,5	22,5	25,3	8	10,5	12	0,09
	26	35151126	39	41,1	8,5	23,2	28,3	8	12,8	12	0,12
	30	35151130	45	47,1	10	27,2	30,3	12	14,8	12	0,17
2	16	35201116	32	34,8	8	23,5	25,3	8	9,5	14	0,08
	19	35201119	38	40,8	9	24,2	25,3	8	11,8	12	0,11
	22	35201122	44	46,8	10	27,9	30,3	12	14,1	14	0,18
	26	35201126	52	54,8	12	31,4	35,3	12	16,6	14	0,28
	30	35201130	60	62,8	13	34,1	40,3	14	19,9	17	0,41
2,5	16	35251116	40	43,5	10	28,1	30,3	12	11,9	15	0,14
	19	35251119	47,5	51	11	27,1	35,3	12	14,9	13	0,21
	22	35251122	55	58,5	12	30,1	45,3	16	17,9	16	0,36
	26	35251126	65	68,5	15	33,2	45,3	16	20,8	16	0,47
	30	35251130	75	78,5	16	39	50,3	16	25	20	0,74
3	16	35301116	48	52,5	12	31,7	40,3	12	14,3	18	0,28
	19	35301119	57	61,2	13	36	40,3	14	18	17	0,39
	22	35301122	66	70,2	15	36,9	50,3	16	21,1	17	0,59
	26	35301126	78	82,2	17	38,4	50,3	16	25,6	18	0,77
	30	35301130	90	94,2	19	43,8	60,3	20	30,2	22	1,19
3,5	16	35351116	56	60,9	14	36,4	45,3	16	16,6	20	0,41
	19	35351119	66,5	71,5	15	37,8	50,3	18	21	19	0,59
	22	35351122	77	81,9	17	39,1	55,3	20	24,9	18	0,84
	26	35351126	91	96	20	43,35	62,3	20	29,7	20	1,17
	30	35351130	105	110	23	47,1	70,3	20	34,9	22	1,69
4	16	35401116	64	69,7	15	44,3	50,3	16	19,7	25	0,66
	19	35401119	76	81,7	18	44,4	55,3	20	23,6	22	0,88
	22	35401122	88	93,7	20	45,9	60,3	20	28,1	22	1,21
	26	35401126	104	109,7	23	48	70,3	20	34	22	1,68
	30	35401130	120	125,7	26	54,2	80,3	20	39,8	25	2,50
4,5	16	35451116	72	78,4	17,5	46,3	55,3	20	21,7	25	0,84
	19	35451119	85,5	91,8	20	49	62,3	20	26,57	25	1,15
	22	35451122	99	105,3	22	50,1	70,3	20	31,9	25	1,72
	26	35451126	117	123	25	54,7	75,3	20	38,6	26	2,22
	30	35451130	135	141,4	29	60	80,3	20	45	28	3,25
5	16	35501116	80	87,1	18	48,9	60,3	20	25,1	25	1,10
	19	35501119	95	102,1	22	52,2	60,3	20	29,8	25	1,50
	22	35501122	110	117,1	24	58,2	80,3	20	35,8	30	2,39
	26	35501126	130	137,1	29	62,7	80,3	20	42,3	30	3,27
	30	35501130	150	157,1	32	68,9	80,3	20	50,1	35	4,13

 MATERIAL **C 45 UNI 7847**

 CAD drawings available on our site
www.chiaravalli.com

 Quantity, availability and prices
 on B2B Chiaravalli


BEVEL GEAR WITH STRAIGHT TEETH SPECIAL CH EXECUTION RATIO 1:1



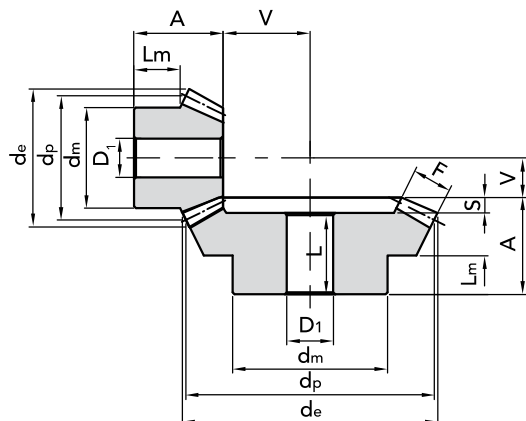
BEVEL GEAR WITH STRAIGHT TEETH SPECIAL CH EXECUTION RATIO 1:1.5

RATIO 1:1.5

Normal axis

Pressure angle: 20°

GLEASON SYSTEM

[illegible]

MATERIAL C 45 UNI 7847

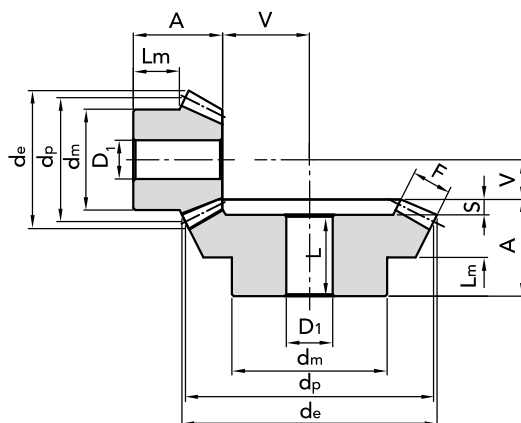
CAD drawings available on our site
www.chiaravalli.com

Quantity, availability and prices on B2B Chiaravalli





GLEASON SYSTEM



Quantity, availability and prices on B2B Chiaravalli



BEVEL GEAR WITH STRAIGHT TEETH SPECIAL CH EXECUTION RATIO 1:2



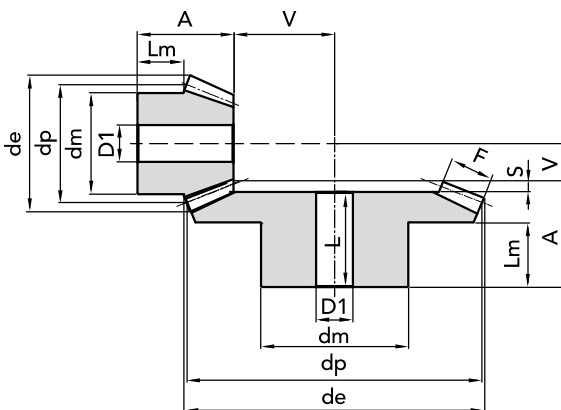
BEVEL GEAR WITH STRAIGHT TEETH SPECIAL CH EXECUTION RATIO 1:2.5

RELATION 1:2.5

Normal axis

Pressure angle: 20°

GLEASON SYSTEM

[illegible]

MATERIAL C 45 UNI 7847

CAD drawings available on our site
www.chiaravalli.com

Quantity, availability and prices on B2B Chiaravalli





BEVEL GEAR WITH STRAIGHT TEETH SPECIAL CH EXECUTION GLEASON SYSTEM

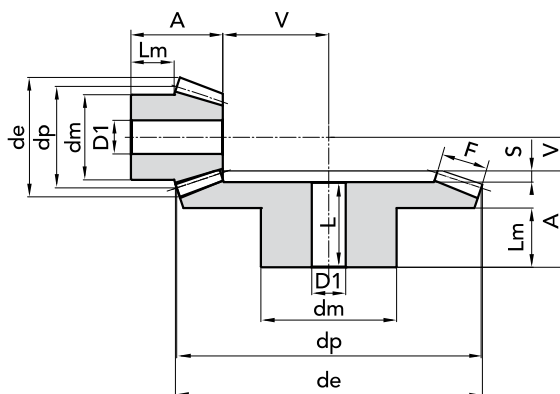
13

RELATION 1:3

Normal axis

Pressure angle: 20°

GLEASON SYSTEM



M	Z	PART NUMBER	d _p	d _e	F	A	d _m	D ₁	L	V	S	L _m	Kg
1	15	35101315	15	17,7	7,1	16,6	13,3	4		15,4		9,2	0,03
	45	36101345	45	45,3	7,1	17,1	25,3	8	15,2	4,9	1,9	10	0,09
1.5	15	35151315	22,5	26,5	10,5	22,6	19,3	8		23,4		11,7	0,04
	45	36151345	67,5	68,1	10,5	29,6	45,3	14	27,2	7,4	2,4	20	0,40
2	15	35201315	30	35,4	14	28,9	25,3	8		31,1		14,2	0,09
	45	36201345	90	90,8	14	32,1	45,3	16	28,4	9,9	3,7	20	0,62
2.5	15	35251315	37,5	44,2	18	34,6	32,3	12		38,4		15,9	0,17
	45	36251345	112,5	113,4	18	39,7	60,3	20	35,3	12,3	4,4	25	1,19
3	15	35301315	45	53	21	41,3	40,3	16		46,7		19,7	0,29
	45	36301345	135	136,1	21	47,2	60,3	20	42	14,8	5,2	30	1,91
3.5	15	35351315	52,5	61,9	23,5	49,6	45,3	20		55,4		25	0,48
	45	36351345	157,5	158,8	23,5	54,4	80,3	20	48,6	17,6	5,8	35	2,21
4	15	35401315	60	70,7	27,5	54,3	50,3	20		62,7		25,4	0,70
	45	36401345	180	181,5	27,5	57	80,3	20	50,5	20	6,5	35	4,21
4.5	15	35451315	67,5	79,5	28,5	55,2	55,3	20		72,8		24,8	1,14
	45	36451345	202,5	204,2	28,5	63,9	90,3	20	57	23,1	6,9	40	7,03
5	15	35501315	75	88,4	33	65,3	60,3	20		79,7		30	1,45
	45	36501345	225	226,9	33	66,7	90,3	20	59,2	25,3	7,5	40	8,42

MATERIAL C 45 UNI 7847

CAD drawings available on our site
www.chiaravalli.com

Quantity, availability and prices
on B2B Chiaravalli



BEVEL GEAR WITH STRAIGHT TEETH SPECIAL CH EXECUTION RATIO 1:3



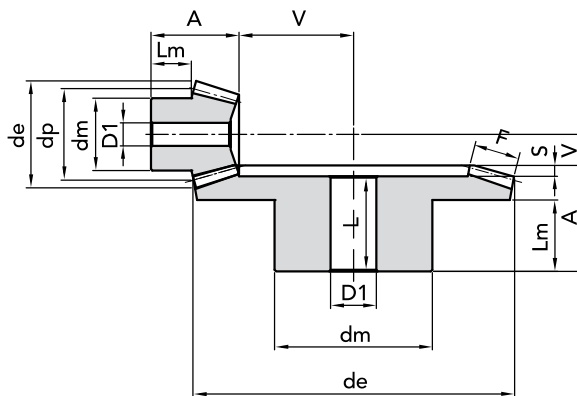
BEVEL GEAR WITH STRAIGHT TEETH SPECIAL CH EXECUTION RATIO 1:3.5

RATIO 1:3.5

Normal axis

Pressure angle: 20°

GLEASON SYSTEM

[illegible]

MATERIAL C 45 UNI 7847

CAD drawings available on our site
www.chiaravalli.com

Quantity, availability and prices on B2B Chiaravalli



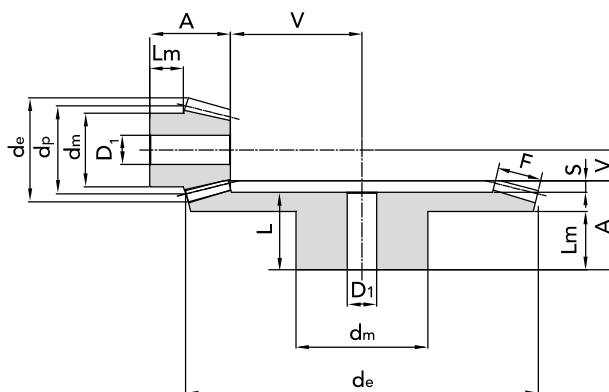


RATIO 1:4

Normal axis

Pressure angle: 20°

GLEASON SYSTEM



BEVEL GEAR WITH STRAIGHT TEETH SPECIAL CH EXECUTION RATIO 1:4

MATERIAL C 45 UNI 7847

CAD drawings available on our site
www.chiaravalli.com

Quantity, availability and prices on B2B Chiaravalli





The "GLEASON" system range of bevel gears with spiral toothing is an extension of the range of standard bevel gear pairs with which this range shares the declared intentions and objectives.

The criteria adopted comply as closely as possible with International Standards as regards general sizing and the definition of the geometric features, whereas the choice of the key nominal data has been based on a progression depending on the range of the normal numbers established by the **DIN 323** and **ISO R3/R17** standards.

The spiral toothing complying with the "GLEASON" system is the result of a specific project designed to achieve optimised functional features compared with the geometric parameters that frequently conflict with each other.

The key sizing for the toothing, in particular refers to the following:

- The choice of a reduced tooth height - Correction by profile displacement

- Adoption of a normal pressure angle:

$\alpha_n = 20^\circ$ - The constant tooth bottom gap along the whole tooth surface and other geometric solutions. This series of bevel gear with spiral toothing is designed for general use in plants and in general mechanical applications. The project has been designed therefore, to privilege the mechanical performance normally requested by this sector and special attention has been paid in defining the geometric features that can determine the tooth covering factor and the restraining reactions which determine the load on the bevel gear pair bearings.

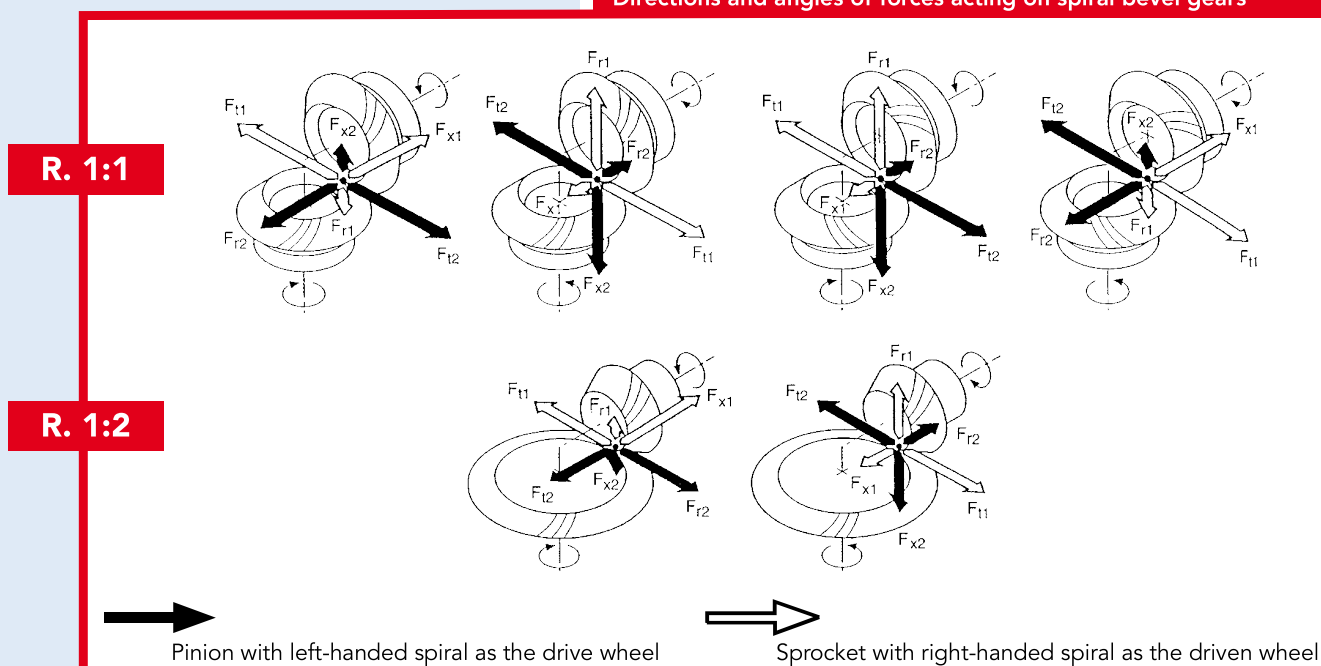
By their very nature bevel gears with spiral toothing are designed for a more demanding use compared with that of straight teeth bevel gear pairs therefore, CHIARAVALLI GROUP SpA has made available the Company's range of bevel gear pairs with the intention of providing a solution that will be appreciated by the users of this product.

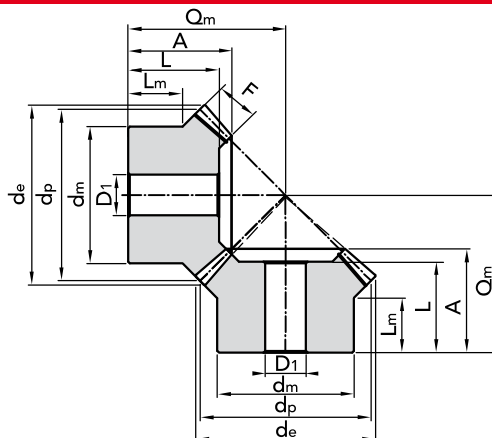
Naturally and in the framework of the Company's traditional technical collaboration with end users, the CHIARAVALLI GROUP SpA technical office is available to provide suggestions concerning more specific circumstances and problems.

GLEASON SYSTEM



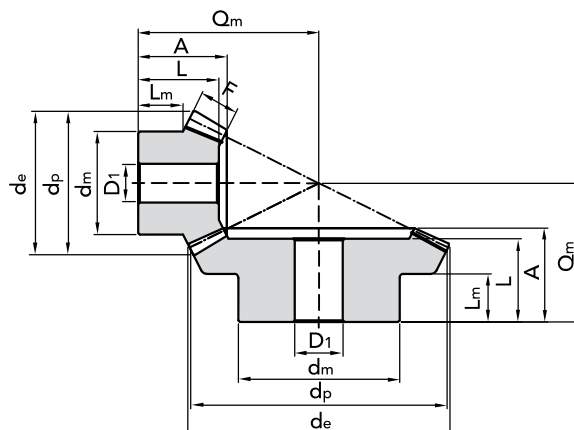
Directions and angles of forces acting on spiral bevel gears



**RATIO 1:1****GLEASON SYSTEM**

M	Z	PART NUMBER SX	PART NUMBER DX	d_p	d_m	D_1	F	d_e	L_m	L	A	Q_m	Kg
1,5	16	31151116	31151117	24	18	8	6	25,3	9	16	16,7	24	0,04
	20	31151120	31151121	30	22	8	7	31,3	10	18	19,4	29 -0,05	0,12
	25	31151125	31151126	37,5	28	8	8	38,8	11,5	21	22,5	35 -0,1	0,21
	30	31151130	31151131	45	32	10	10	46,3	11	23	25,1	40	0,40
2	16	31201116	31201117	32	25	10	9	34	9,45	16,9	19,9	29	0,06
	20	31201120	31201121	40	32	10	12	42	11,95	21,7	24,9	36 -0,05	0,14
	25	31201125	31201126	50	40	12	14	52	11,9	24,8	27,4	42 -0,1	0,25
	30	31201130	31201131	60	50	12	16	62	12,95	26,9	29,9	48	0,42
2,5	16	31251116	31251117	40	32	12	10	42,5	13	21,8	24,8	37	0,13
	20	31251120	31251121	50	40	12	12	52,5	16	26,7	30,2	46 -0,05	0,27
	25	31251125	31251126	62,5	50	15	15	65	16	29,9	33,2	53 -0,1	0,47
	30	31251130	31251131	75	55	15	18	77,5	16	31,8	35	59	0,69
3	16	31301116	31301117	48	40	15	12	51	16	25,8	29,4	44	0,23
	20	31301120	31301121	60	45	15	18	63	13,5	30,7	34,5	51 -0,076	0,41
	25	31301125	31301126	75	55	15	20	78	16	33,7	37,5	60 -0,127	0,72
	30	31301130	31301131	90	60	20	22	93	19	35,8	39,5	68	0,99
4	16	31401116	31401117	64	50	15	15	68	17,75	30,8	36	56	0,51
	20	31401120	31401121	80	60	18	17	84	18	32,5	37,5	64 -0,102	0,81
	25	31401125	31401126	100	70	20	21	104	18	35,2	40,4	74 -0,152	1,33
	30	31401130	31401131	120	80	25	25	124	16	38,1	43,2	84	2,10
5	16	31501116	31501117	80	60	20	17	85	18,9	35,5	41,9	68	0,88
	20	31501120	31501121	100	70	20	21	105	18,5	37,7	44,8	78 -0,127	1,47
	25	31501125	31501126	125	90	20	26	130	18,5	41,8	47,8	90 -0,178	2,67
	30	31501130	31501131	150	110	30	32	155	18	45,7	52,5	103	4,25

MATERIAL C 45 UNI 7847CAD drawings available on our site
www.chiaravalli.comQuantity, availability and prices
on B2B Chiaravalli

**RATIO 1:2****GLEASON SYSTEM**

M	Z	PART NUMBER SX	PART NUMBER DX	d_p	d_m	D_1	F	d_e	L_m	L	A	Q_m	Kg
1,5	16	31151216		24	20	10	8	26,5	9,5	17	18,6	35 -0,05	0,07
												-0,1	
	32		31151232	48	32	12	8	48,3	10	18	20	28 -0,05	0,29
												-0,1	
2	16	31201216		32	27	10	10	35,5	11,7	21	22,5	45 -0,05	0,09
												-0,1	
	32		31201232	64	40	12	10	64,5	10	21,5	24,1	35 -0,05	0,32
												-0,1	
3	16	31301216		48	40	15	15	53,5	12	25,2	28,4	62 -0,076	0,25
												-0,127	
	32		31301232	96	60	15	15	97	15	29,8	34,6	51 -0,076	1,03
												-0,127	
4	16	31401216		64	50	20	20	71,5	13,5	32,2	36,2	81 -0,102	0,52
												-0,152	
	32		31401232	128	80	20	20	129	23	38,7	44,2	66 -0,102	2,21
												-0,152	
5	16	31501216		80	60	20	25	89,5	21	45,3	50	106 -0,127	1,16
												-0,178	
	32		31501232	160	90	25	25	162	27	46,8	53,7	81 -0,127	2,79
												-0,178	

MATERIAL **C 43 UNI 7847**CAD drawings available on our site
www.chiaravalli.comQuantity, availability and prices
on B2B Chiaravalli



SPECIAL PRODUCTIONS ON REQUEST



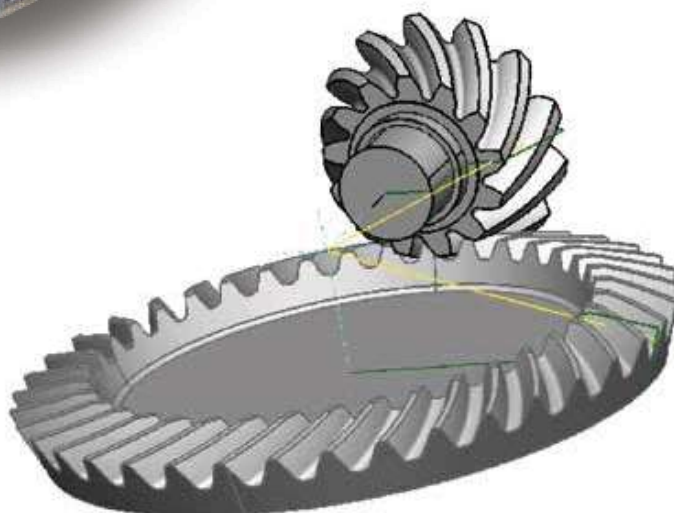
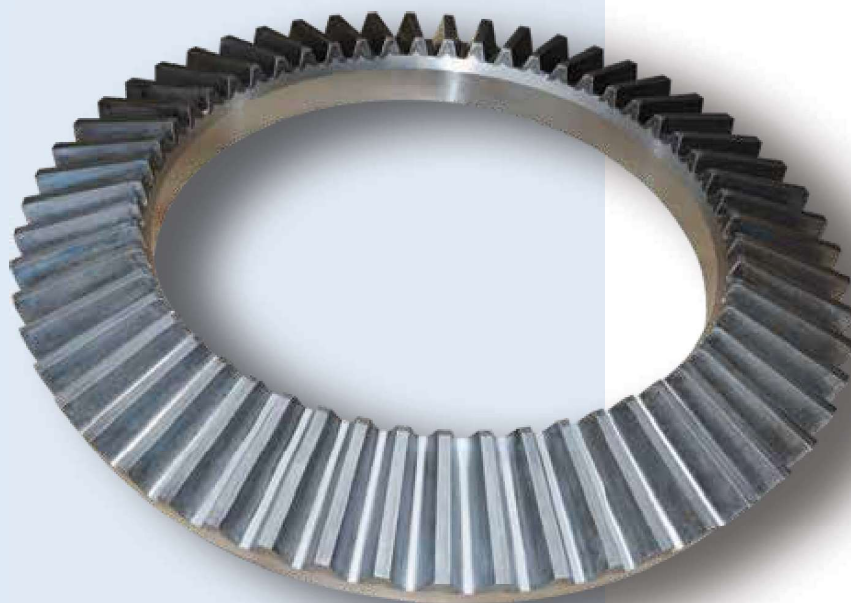


SPECIAL PRODUCTIONS ON REQUEST





Bevel tothing
straight teeth or spiral
helical GLEASON SYSTEM
case-hardened or ductile
with minimum dimensions from...
to maximum...
in quality **Class 7**
according to **DIN 3962**





OUR MACHINE TOOLS FLEET



A very modern
machine tools fleet,
constantly updated
with annual
fixed important
investments.





A wide range of three-dimensional measuring machines to assure a certified quality.