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CHIARAVALLI® GROUP SpA



STRAIGHT SPUR GEARS and RACKS

SPUR GEARS
WITH LATERAL HUB page 4

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RACKS 9

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SPUR GEARS AND RACKS

МЕХАНИКАЛ ПРОДАКТС

SPUR GEARS
WITHOUT HUB





SPUR GEARS
WITH LATERAL HUB





RACKS

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МЕХАНИКАЛ ПРОДАКТС

Straight gears and racks are the classical components for mechanical transmission of rotary and transverse movements between moving parts of machines.
This explains why these components are so widespread and are used to such a large extent in various sectors of general mechanics such that in practice it is impossible to find a rigid type power transfer drive chain which does not adopt these basic components.

However, the needs of industry are extremely complex as regards the performance required from the gear and the rack and reflect the typical operating conditions in terms of precision or resistance of final use for which the gear and the rack are designed. This is why proposing a product intended to meet any need expressed by industrial experience would be unthinkable.

CHIARAVALLI GROUP SpA has made a basic choice with this aspect in mind, deciding to offer industry a broad range of gears and racks for general use, combined in a standardised series, which is characterised by excellent quality.
The gears and racks produced using standardised C40 steel are manufactured adopting modular sizes in accordance with a reference profile that complies with
DIN 3972
II and a full head radius.

This ensures complete engagement at the base of the tooth with an obvious increase in the bending resistance.
The internal specifications that define the geometry of the tooth prescribe a marked "K" profile for the side surface, with a strict limitation of the profile errors to negative deviations. This has a positive influence on the level of noise of the toothed pair, since the engaging impacts to the teeth head are reduced.

The systematic use of latest generation CNC gear hobbing machines, special hobs designed for very high cutting speeds and specifically developed processing technologies, enable a general precision to be assured in compliance with
DIN 3962
Standards and a degree of surface finish that is not readily achieved with operations using a hob gear cutting machine.
The working tolerance for tooth thickness has been chosen to comply with the **"cd 25" Coupling Category** in accordance
with **DIN 3967** Standards,
which defines the position and the size of the tolerance range and therefore the coupling gap between the gears.
A processing **tolerance equal to "js 8"** for the centre distance is recommended in compliance with
DIN 3964 Standards
for normal operating conditions, which if adopted, enables us to assure a minimum working coupling gap of adequate size, while at the same time limiting the value of the maximum gap. Similar considerations apply in the case of the gear-rack coupling, since the latter is manufactured adopting the same coupling category.

Our Technical Department is available and willing to recommend the most appropriate assembly tolerances to Customers who are interested, although we are also able to manufacture gears with coupling gaps that are larger or smaller compared with the standard value to meet specific needs.
We are able to manufacture our straight gears as illustrated in the catalogue with a lengthwise crowning of the teeth, at the request of customers. This solution is particularly useful if the user is unable to ensure a perfect alignment between the axes.

THE RANGE OF MACHINES USED, COMPRISING ALMOST ENTIRELY OF VERY MODERN MACHINES THAT HAVE CUTTING EDGE FEATURES AND DESIGN ENABLES OUR COMPANY TO PRODUCE GEARS BASED ON A DRAWING IN QUALITATIVE AT A VERY COMPETITIVE PRICE.

Our Technical Department is available to carry out a preliminary examination of any processing problems experienced by Customers and to prepare cost estimates.

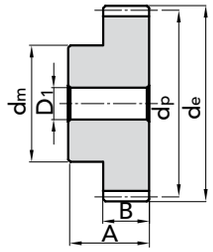
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МЕХАНИКАЛ ПРОДАКТС

WITH LATERAL HUB

Pressure angle: 20°

MATERIAL **C 45 UNI 7845**



WIDTH BAND **B** for:	
Module **1**	= 15 mm
Module **1.5**	= 17 mm
Module **2**	= 20 mm

TOTAL WIDTH **A** for:	
Module **1**	= 25 mm
Module **1.5**	= 30 mm
Module **2**	= 35 mm

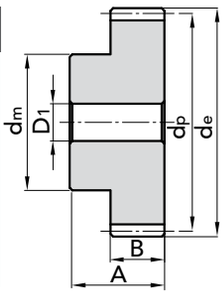
MODULE 1							MODULE 1,5						MODULE 2					
Z	P. NUMBER	d_e	d_p	d_m	$ØD_1$	Kg	P. NUMBER	d_e	d_p	d_m	$ØD_1$	Kg	P. NUMBER	d_e	d_p	d_m	$ØD_1$	Kg
12	30110012	14	12	9	5	0,01	30115012	21,0	18,0	14	8	0,04	30120012	28	24	18	10	0,08
13	30110013	15	13	10	5	0,02	30115013	22,5	19,5	14	8	0,05	30120013	30	26	19	10	0,10
14	30110014	16	14	10	6	0,02	30115014	24,0	21,0	17	8	0,06	30120014	32	28	20	10	0,12
15	30110015	17	15	12	6	0,02	30115015	25,5	22,5	18	8	0,07	30120015	34	30	22	10	0,14
16	30110016	18	16	13	6	0,03	30115016	27,0	24,0	20	8	0,08	30120016	36	32	24	10	0,16
17	30110017	19	17	14	8	0,03	30115017	28,5	25,5	20	8	0,09	30120017	38	34	25	10	0,18
18	30110018	20	18	15	8	0,03	30115018	30,0	27,0	20	8	0,10	30120018	40	36	25	10	0,19
19	30110019	21	19	15	8	0,04	30115019	31,5	28,5	20	8	0,10	30120019	42	38	25	10	0,21
20	30110020	22	20	16	8	0,04	30115020	33,0	30,0	25	8	0,13	30120020	44	40	30	10	0,26
21	30110021	23	21	16	8	0,05	30115021	34,5	31,5	25	10	0,13	30120021	46	42	30	12	0,27
22	30110022	24	22	18	8	0,05	30115022	36,0	33,0	25	10	0,14	30120022	48	44	30	12	0,29
23	30110023	25	23	18	8	0,06	30115023	37,5	34,5	25	10	0,16	30120023	50	46	30	12	0,31
24	30110024	26	24	20	8	0,06	30115024	39,0	36,0	25	10	0,17	30120024	52	48	35	12	0,36
25	30110025	27	25	20	8	0,07	30115025	40,5	37,5	25	10	0,18	30120025	54	50	35	12	0,39
26	30110026	28	26	20	8	0,07	30115026	42,0	39,0	30	12	0,20	30120026	56	52	40	12	0,45
27	30110027	29	27	20	8	0,08	30115027	43,5	40,5	30	12	0,22	30120027	58	54	40	12	0,47
28	30110028	30	28	20	8	0,08	30115028	45,0	42,0	30	12	0,23	30120028	60	56	40	12	0,50
29	30110029	31	29	20	8	0,09	30115029	46,5	43,5	30	12	0,24	30120029	62	58	40	14	0,52
30	30110030	32	30	20	8	0,09	30115030	48,0	45,0	30	12	0,26	30120030	64	60	40	14	0,55
31	30110031	33	31	25	10	0,11	30115031	49,5	46,5	35	12	0,30	30120031	66	62	45	14	0,61
32	30110032	34	32	25	10	0,12	30115032	51,0	48,0	35	12	0,31	30120032	68	64	45	14	0,65
33	30110033	35	33	25	10	0,12	30115033	52,5	49,5	35	12	0,33	30120033	70	66	45	14	0,68
34	30110034	36	34	25	10	0,13	30115034	54,0	51,0	35	12	0,34	30120034	72	68	45	14	0,71
35	30110035	37	35	25	10	0,14	30115035	55,5	52,5	35	12	0,36	30120035	74	70	45	14	0,74
36	30110036	38	36	25	10	0,14	30115036	57,0	54,0	35	12	0,37	30120036	76	72	45	14	0,78
37	30110037	39	37	25	10	0,15	30115037	58,5	55,5	40	12	0,42	30120037	78	74	50	14	0,86
38	30110038	40	38	25	10	0,16	30115038	60,0	57,0	40	12	0,44	30120038	80	76	50	14	0,90
39	30110039	41	39	25	10	0,16	30115039	61,5	58,5	40	12	0,46	30120039	82	78	50	14	0,93
40	30110040	42	40	25	10	0,17	30115040	63,0	60,0	40	12	0,48	30120040	84	80	50	14	0,97
41	30110041	43	41	30	10	0,19	30115041	64,5	61,5	50	14	0,50	30120041	86	82	60	16	1,05
42	30110042	44	42	30	10	0,20	30115042	66,0	63,0	50	14	0,59	30120042	88	84	60	16	1,09
43	30110043	45	43	30	10	0,21	30115043	67,5	64,5	50	14	0,61	30120043	90	86	60	16	1,13
44	30110044	46	44	30	10	0,22	30115044	69,0	66,0	50	14	0,63	30120044	92	88	60	16	1,23
45	30110045	47	45	30	10	0,23	30115045	70,5	67,5	50	14	0,65	30120045	94	90	60	16	1,27
46	30110046	48	46	30	10	0,23	30115046	72,0	69,0	50	14	0,66	30120046	96	92	60	16	1,31
47	30110047	49	47	30	10	0,24	30115047	73,5	70,5	50	14	0,70	30120047	98	94	60	16	1,48
48	30110048	50	48	30	10	0,35	30115048	75,0	72,0	50	14	0,70	30120048	100	96	70	16	1,53
49	30110049	51	49	30	10	0,36	30115049	76,5	73,5	50	14	0,73	30120049	102	98	70	16	1,57
50	30110050	52	50	30	12	0,26	30115050	78,0	75,0	50	14	0,76	30120050	104	100	70	16	1,62
51	30110051	53	51	40	12	0,32	30115051	79,5	76,5	60	15	0,86	30120051	106	102	70	20	1,67
52	30110052	54	52	40	12	0,33	30115052	81,0	78,0	60	15	0,89	30120052	108	104	70	20	1,72
53	30110053	55	53	40	12	0,33	30115053	82,5	79,5	60	15	0,91	30120053	110	106	70	20	1,78
54	30110054	56	54	40	12	0,34	30115054	84,0	81,0	60	15	0,94	30120054	112	108	70	20	1,83
55	30110055	57	55	40	12	0,36	30115055	85,5	82,5	60	15	0,96	30120055	114	110	70	20	1,88
56	30110056	58	56	40	12	0,37	30115056	87,0	84,0	60	15	0,98	30120056	116	112	70	20	1,94
57	30110057	59	57	40	12	0,38	30115057	88,5	85,5	60	15	1,00	30120057	118	114	70	20	1,99
58	30110058	60	58	40	12	0,39	30115058	90,0	87,0	60	15	1,03	30120058	120	116	70	20	2,05
59	30110059	61	59	40	12	0,40	30115059	91,5	88,5	60	15	1,06	30120059	122	118	70	20	2,11
60	30110060	62	60	40	12	0,41	30115060	93,0	90,0	60	15	1,09	30120060	124	120	70	20	2,16
61	30110061	63	61	50	12	0,47	30115061	94,5	91,5	70	20	1,22	30120061	126	122	80	20	2,36
62	30110062	64	62	50	12	0,49	30115062	96,0	93,0	70	20	1,25	30120062	128	124	80	20	2,42
63	30110063	65	63	50	12	0,50	30115063	97,5	94,5	70	20	1,28	30120063	130	126	80	20	2,48
64	30110064	66	64	50	12	0,51	30115064	99,0	96,0	70	20	1,31	30120064	132	128	80	20	2,55
65	30110065	67	65	50	12	0,52	30115065	100,5	97,5	70	20	1,34	30120065	134	130	80	20	2,61
66	30110066	68	66	50	12	0,53	30115066	102,0	99,0	70	20	1,37	30120066	136	132	80	20	2,67
67	30110067	69	67	50	12	0,55	30115067	103,5	100,5	70	20	1,40	30120067	138	134	80	20	2,74
68	30110068	70	68	50	12	0,56	30115068	105,0	102,0	70	20	1,43	30120068	140	136	80	20	2,81
69	30110069	71	69	50	12	0,57	30115069	106,5	103,5	70	20	1,46	30120069	142	138	80	20	2,87
70	30110070	72	70	50	12	0,58	30115070	108,0	105,0	70	20	1,50	30120070	144	140	80	20	2,94

CAD drawings available on our site
www.chiaravalli.com

Quantity, availability and prices on B2B Chiaravalli

WITH LATERAL HUB

Pressure angle: 20°



WIDTH BAND B for:

Module **2.5** = 25 mm
Module **3** = 30 mm
Module **4** = 40 mm

TOTAL WIDTH A for:

Module **2.5** = 40 mm
Module **3** = 50 mm
Module **4** = 60 mm

MODULE 2,5

Z	P. NUMBER	d_e	d_p	d_m	$ØD_1$	Kg
12	30125012	35,0	30,0	22	10	0,17
13	30125013	37,5	32,5	25	10	0,21
14	30125014	40,0	35,0	28	10	0,25
15	30125015	42,5	37,5	30	10	0,30
16	30125016	45,0	40,0	32	12	0,33
17	30125017	47,5	42,5	35	12	0,38
18	30125018	50,0	45,0	35	12	0,42
19	30125019	52,5	47,5	35	12	0,45
20	30125020	55,0	50,0	40	14	0,54
21	30125021	57,5	52,5	40	14	0,56
22	30125022	60,0	55,0	45	14	0,66
23	30125023	62,5	57,5	45	14	0,70
24	30125024	65,0	60,0	45	14	0,74
25	30125025	67,5	62,5	50	14	0,85
26	30125026	70,0	65,0	50	14	0,90
27	30125027	72,5	67,5	50	14	0,95
28	30125028	75,0	70,0	50	14	1,00
29	30125029	77,5	72,5	50	14	1,06
30	30125030	80,0	75,0	55	16	1,18
31	30125031	82,5	77,5	55	16	1,22
32	30125032	85,0	80,0	55	16	1,28
33	30125033	87,5	82,5	55	16	1,34
34	30125034	90,0	85,0	55	16	1,41
35	30125035	92,5	87,5	60	16	1,54
36	30125036	95,0	90,0	60	16	1,61
37	30125037	97,5	92,5	60	16	1,68
38	30125038	100,0	95,0	60	16	1,75
39	30125039	102,5	97,5	60	16	1,83
40	30125040	105,0	100,0	70	20	2,06
41	30125041	107,5	102,5	70	20	2,14
42	30125042	110,0	105,0	70	20	2,22
43	30125043	112,5	107,5	70	20	2,30
44	30125044	115,0	110,0	70	20	2,38
45	30125045	117,5	112,5	70	20	2,47
46	30125046	120,0	115,0	70	20	2,52
47	30125047	122,5	117,5	80	20	2,80
48	30125048	125,0	120,0	80	20	2,88
49	30125049	127,5	122,5	80	20	2,98
50	30125050	130,0	125,0	80	20	3,07
51	30125051	132,5	127,5	90	20	3,17
52	30125052	135,0	130,0	90	20	3,48
53	30125053	137,5	132,5	90	20	3,58
54	30125054	140,0	135,0	90	20	3,68
55	30125055	142,5	137,5	90	20	3,78
56	30125056	145,0	140,0	100	20	4,13
57	30125057	147,5	142,5	100	20	4,23
58	30125058	150,0	145,0	100	20	4,34
59	30125059	152,5	147,5	100	20	4,46
60	30125060	155,0	150,0	100	20	4,57

MODULE 3

P. NUMBER	d_e	d_p	d_m	$ØD_1$	Kg
30130012	42	36	25	12	0,28
30130013	45	39	25	12	0,34
30130014	48	42	30	12	0,41
30130015	51	45	35	12	0,47
30130016	54	48	38	15	0,54
30130017	57	51	42	15	0,63
30130018	60	54	45	15	0,72
30130019	63	57	45	15	0,78
30130020	66	60	45	15	0,84
30130021	69	63	45	15	0,89
30130022	72	66	50	15	1,02
30130023	75	69	50	15	1,10
30130024	78	72	50	16	1,18
30130025	81	75	60	16	1,39
30130026	84	78	60	16	1,48
30130027	87	81	60	16	1,56
30130028	90	84	60	16	1,66
30130029	93	87	60	16	1,75
30130030	96	90	60	16	1,85
30130031	99	93	70	20	1,95
30130032	102	96	70	20	2,21
30130033	105	99	70	20	2,32
30130034	108	102	70	20	2,43
30130035	111	105	70	20	2,55
30130036	114	108	70	20	2,62
30130037	117	111	80	20	2,74
30130038	120	114	80	20	3,05
30130039	123	117	80	20	3,18
30130040	126	120	80	20	3,31
30130041	129	123	90	20	3,44
30130042	132	126	90	20	3,58
30130043	135	129	90	20	3,72
30130044	138	132	90	20	4,07
30130045	141	135	90	20	4,22
30130046	144	138	90	20	4,37
30130047	147	141	90	20	4,76
30130048	150	144	100	20	4,92

MODULE 4

P. NUMBER	d_e	d_p	d_m	$ØD_1$	Kg
30140012	56	48	35	14	0,63
30140013	60	52	40	14	0,78
30140014	64	56	45	14	0,93
30140015	68	60	45	14	1,05
30140016	72	64	50	15	1,20
30140017	76	68	50	15	1,33
30140018	80	72	50	15	1,47
30140019	84	76	60	15	1,75
30140020	88	80	60	15	1,90
30140021	92	84	70	20	2,22
30140022	96	88	70	20	2,39
30140023	100	92	75	20	2,60
30140024	104	96	75	20	2,79
30140025	108	100	75	20	2,98
30140026	112	104	75	20	3,18
30140027	116	108	75	20	3,39
30140028	120	112	75	20	3,60
30140029	124	116	75	20	3,83
30140030	128	120	75	20	4,06
30140031	132	124	80	20	4,39
30140032	136	128	80	20	4,64
30140033	140	132	80	20	4,90
30140034	144	136	80	20	5,16
30140035	148	140	80	20	5,43
30140036	152	144	80	20	5,63

MATERIAL **C 45 UNI 7845**



CAD drawings available on our site
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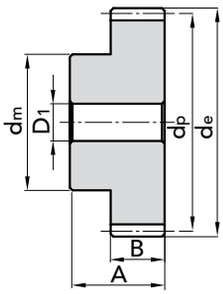
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МЕХАНИКАЛ ПРОДАКТС

WITH LATERAL HUB

Pressure angle: 20°



WIDTH BAND **B** for:	
Module **5**	= 50 mm
Module **6**	= 60 mm
Module **8**	= 80 mm

TOTAL WIDTH **A** for:	
Module **5**	= 75 mm
Module **6**	= 80 mm
Module **8**	= 110 mm

	MODULE 5						MODULE 6						MODULE 8					
Z	P. NUMBER	d_e	d_p	d_m	$ØD_1$	Kg	P. NUMBER	d_e	d_p	d_m	$ØD_1$	Kg	P. NUMBER	d_e	d_p	d_m	$ØD_1$	Kg
12	30150012	70	60	45	16	1,21	30160012	84	72	54	16	1,98						
13	30150013	75	65	50	16	1,47	30160013	90	78	60	16	2,38						
14	30150014	80	70	55	20	1,76												
15	30150015	85	75	60	20	2,07	30160015	102	90	70	20	3,29	30180015	136	120	90	25	8,20
16	30150016	90	80	65	20	2,40	30160016	108	96	75	20	3,80						
17	30150017	95	85	70	20	2,75												
18	30150018	100	90	70	20	3,02	30160018	120	108	80	20	4,76	30180018	160	144	100	25	11,7
19	30150019	105	95	70	20	3,30												
20	30150020	110	100	80	20	3,83	30160020	132	120	90	20	5,99	30180020	176	160	120	30	14,6
21	30150021	115	105	80	20	4,15												
22	30150022	120	110	80	25	4,48												
23	30150023	125	115	90	25	5,08												
24	30150024	130	120	90	25	5,44	30160024	156	144	110	25	8,70	30180024	208	192	150	30	21,7
25	30150025	135	125	90	25	5,82	30160025	162	150	110	25	9,33	30180025	216	200	150	30	23,3
26	30150026	140	130	100	25	6,50												
27	30150027	145	135	100	25	6,91												
28	30150028	150	140	100	25	7,22							30180028	240	224	170	30	29,5
29	30150029	155	145	100	25	7,98												
30	30150030	160	150	100	25	8,44							30180030	256	240	190	30	34,4
31																		
32																		
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MATERIAL **C 45 UNI 7845**



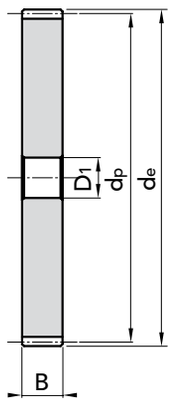
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WITHOUT HUB LATERAL

Pressure angle: 20°

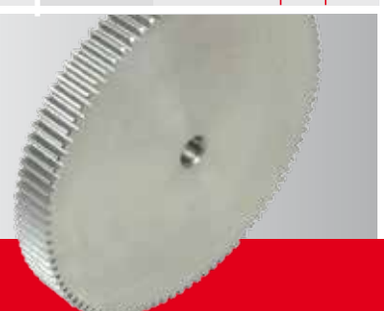


WIDTH BAND **B** for:

Module **1** = 15 mm
Module **1.5** = 17 mm
Module **2** = 20 mm
Module **2.5** = 25 mm

MODULE 1						MODULE 1.5					MODULE 2					MODUE 2.5				
Z	P. NUMBER	d_e	d_p	$ØD_1$	Kg	P. NUMBER	d_e	d_p	$ØD_1$	Kg	P. NUMBER	d_e	d_p	$ØD_1$	Kg	P. NUMBER	d_e	d_p	$ØD_1$	Kg
55																				
57																				
60																				
65																30225065	167,5	162,5	20	3,99
70																30225070	180	175	20	4,64
72	30210072	74	72	12	0,46	30215072	111	108	20	1,19	30220072	148	144	20	2,50	30225072	185	180	20	4,91
75	30210075	77	75	12	0,51	30215075	115,5	112,5	20	1,30	30220075	154	150	20	2,61	30225075	192,5	187,5	20	5,33
76	30210076	78	76	12	0,52	30215076	117	114	20	1,33	30220076	156	152	20	2,79	30225076	195	190	20	5,48
80	30210080	82	80	12	0,58	30215080	123	120	20	1,48	30215080	164	160	20	3,09	30225080	205	200	25	6,04
85	30210085	87	85	12	0,65	30215085	130,5	127,5	20	1,67	30215085	174	170	20	3,50	30225085	217,5	212,5	25	6,84
90	30210090	92	90	12	0,73	30215090	138	135	20	1,78	30215090	184	180	20	3,93	30225090	230	225	25	7,68
95	30210095	97	95	12	0,82	30215095	145,5	142,5	20	2,09	30215095	194	190	20	4,39	30225095	242,5	237,5	25	8,57
100	30210100	102	100	12	0,91	30215100	153	150	20	2,32	30215100	204	200	20	4,87	30225100	255	250	25	9,51
110	30210110	112	110	12	1,10	30215110	168	165	20	2,82	30215110	224	220	20	5,90	30225110	280	275	25	11,53
114	30210114	116	114	12	1,19	30215114	174	171	20	3,03	30215114	232	228	20	6,34	30225114	290	285	25	12,39
120	30210120	122	120	12	1,32	30215120	183	180	20	3,36	30215120	244	240	20	7,03	30225120	305	300	25	13,74
127	30210127	129	127	12	1,47	30215127	193,5	190,5	20	3,77	30215127	258	254	20	7,89	30225127	322,5	317,5	25	15,40

MATERIAL **C 45 UNI 7845**



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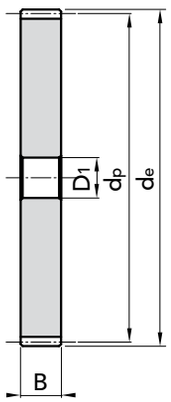
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МЕХАНИКАЛ ПРОДАКТС

WITHOUT HUB LATERAL

Pressure angle: 20°



WIDTH BAND **B** for:

Module **3** = 30 mm
Module **4** = 40 mm
Module **5** = 50 mm
Module **6** = 60 mm

MODULE 3						MODULE 4					MODULE 5					MODULE 6				
Z	P. NUMBER	d_e	d_p	$ØD_1$	Kg	P. NUMBER	d_e	d_p	$ØD_1$	Kg	P. NUMBER	d_e	d_p	$ØD_1$	Kg	P. NUMBER	d_e	d_p	$ØD_1$	Kg
28																30260028	180	168	25	10,0
30																30260030	192	180	25	11,55
32											30250032	170	160	25	7,62	30260032	204	192	25	13,22
35											30250035	185	175	25	9,16	30260035	222	210	25	15,79
38						30240038	160	152	25	5,20	30250038	200	190	30	10,84	30260038	240	228	25	18,74
40						30240040	168	160	25	6,11	30250040	210	200	30	12,04	30260040	252	240	25	20,75
45						30240045	188	180	25	7,68	30250045	235	225	30	15,30					
48						30240048	200	192	25	8,87	30250048	250	240	30	17,44					
50	30230050	156	150	25	4,06	30240050	208	200	25	9,65	30250050	260	250	30	18,69					
52	30230052	162	156	25	4,40	30240052	216	208	25	10,45	30250052	270	260	30	20,43					
55	30230055	171	165	25	4,93	30240055	228	220	25	11,01	30250055	285	275	30	22,89					
57	30230057	177	171	25	5,30	30240057	236	228	25	12,59	30250057	295	285	30	24,62					
60	30230060	186	180	25	5,89	30240060	248	240	25	13,97	30250060	310	300	30	27,31					
65	30230065	201	195	25	6,92	30240065	268	260	25	16,43	30250065	335	325	30	32,12					
70	30230070	216	210	25	8,00	30240070	288	280	25	19,09	30250070	360	350	30	37,31					
72	30230072	222	216	25	8,47															
75	30230075	231	225	25	9,21	30240075	308	300	25	21,94	30250075	385	375	30	42,88					
76	30230076	234	228	25	9,46	30240076	312	304	25	22,47	30250076	390	380	30	44,04					
80	30230080	246	240	25	10,49	30240080	328	320	25	24,83	30250080	410	400	30	48,84					
85	30230085	261	255	25	11,76	30240085	348	340	25	28,18	30250085	435	425	30	55,19					
90	30230090	276	270	25	13,82	30240090	368	360	25	31,62	30250090	460	450	30	61,92					
95	30230095	291	285	25	14,86	30240095	388	380	25	35,26	30250095	485	475	30	69,03					
100	30230100	306	300	25	16,48	30240100	408	400	25	39,11	30250100	510	500	30	76,53					
110	30230110	336	320	25	19,97	30240110	448	440	25	47,38	30250110	560	550	30	92,69					
114	30230114	348	342	25	21,40	30240114	464	456	25	50,91	30250114	580	570	30	99,59					
120	30230120	366	360	25	23,74															
127	30230127	387	381	25	26,61															

MATERIAL **C 45 UNI 7845**



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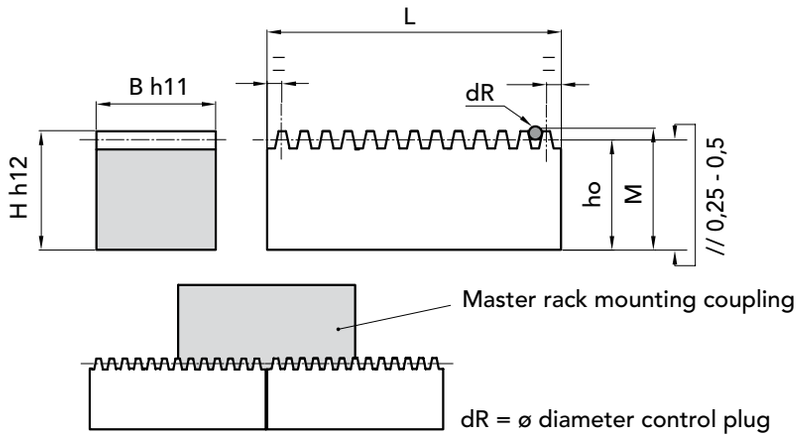
МЕХАНИКАЛ ПРОДАКТС

Tolerance on the pitch: = fpt
from M=1 up to M=3 = ± 0,028
from M=4 up to M=10 = ± 0,040

Tolerance on the sum of the wheelbases on 100 mm = ± 0,08

Quality class 9 as per norm
DIN 3962/63/67

Pressure angle 20°



M	B h11	H h12	dR	ho	M	M - ho	L= real lenght of the rack x continuous mounting			
1	15 $^{0}_{-0,110}$	15 $^{0}_{-0,180}$	2	14	15,71 $^{-0}_{-0,35}$	1,71	502,1 ± 0,3	1001,6 ± 0,3	2000,4 ± 0,3	2999,3 ± 0,3
1,5	17 $^{0}_{-0,110}$	17 $^{0}_{-0,180}$	3	15,5	18,09 $^{-0}_{-0,35}$	2,59	503,6 ± 0,3	1003,1 ± 0,3	2002,0 ± 0,3	3000,8 ± 0,3
2	20 $^{0}_{-0,130}$	20 $^{0}_{-0,210}$	4	18	21,43 $^{-0}_{-0,35}$	3,43	502,1 ± 0,3	1004,6 ± 0,3	2003,6 ± 0,3	3002,4 ± 0,3
2,5	25 $^{0}_{-0,130}$	25 $^{0}_{-0,210}$	5	22,5	26,81 $^{-0}_{-0,40}$	4,31	502,1 ± 0,3	1004,6 ± 0,3	2001,8 ± 0,3	2999,1 ± 0,3
3	30 $^{0}_{-0,130}$	30 $^{0}_{-0,210}$	6	27	32,2 $^{-0}_{-0,40}$	5,2	508,3 ± 0,3	1007,7 ± 0,3	2006,4 ± 0,3	3005,4 ± 0,3
4	30 $^{0}_{-0,130}$	30 $^{0}_{-0,210}$	8	26	32,92 $^{-0}_{-0,40}$	6,92	502,1 ± 0,3	1004,6 ± 0,3	2009,7 ± 0,3	3002,3 ± 0,3
4	40 $^{0}_{-0,160}$	40 $^{0}_{-0,250}$	8	36	42,92 $^{-0}_{-0,40}$	6,92	502,1 ± 0,3	1004,6 ± 0,3	2009,7 ± 0,3	3002,3 ± 0,3
5	50 $^{0}_{-0,160}$	50 $^{0}_{-0,250}$	10	45	53,66 $^{-0}_{-0,40}$	8,66	502,1 ± 0,3	1004,6 ± 0,3	2009,7 ± 0,3	2999,1 ± 0,3
6	60 $^{0}_{-0,190}$	60 $^{0}_{-0,300}$	12	54	64,6 $^{-0}_{-0,40}$	10,6	508,3 ± 0,3	1017,0 ± 0,3	2016,0 ± 0,3	3014,8 ± 0,3
8	80 $^{0}_{-0,190}$	80 $^{0}_{-0,30\,0}$	14	72	82,2 $^{-0}_{-0,40}$	10,2	-	-	2035,3 ± 0,3	-
10	80 $^{0}_{-0,190}$	80 $^{0}_{-0,30\,0}$	18	70	83,74 $^{-0}_{-0,40}$	13,74	-	-	2009,7 ± 0,3	-

MATERIAL **C 40**
NORMALIZE



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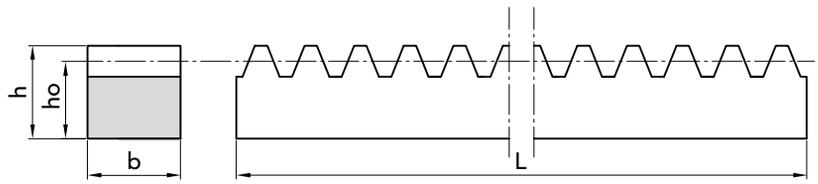
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МЕХАНИКАЛ ПРОДАКТС

Pressure angle: 20°

All the racks provided by Chiaravalli Group SpA are realized for continuous mounting.



DIMENSIONS b x h

M	PART NUMBER	b	h	ho	L	Kg
1	30910050 30910100 30910200 30910300	15	15	14	500 1000 2000 3000	0,82 1,64 3,20 4,80
1,5	30915050 30915100 30915200 30915300	17	17	15,5	500 1000 2000 3000	1,00 2,05 4,00 6,00
2	30920050 30920100 30920200 30920300	20	20	18	500 1000 2000 3000	1,41 2,75 5,50 8,20
2,5	30925050 30925100 30925200 30925300	25	25	22,5	500 1000 2000 3000	2,10 4,50 9,00 13,40
3	30930050 30930100 30930200 30930300	30	30	27	500 1000 2000 3000	3,10 6,50 13,00 19,40
4	30939050 30939100 30939200	30	30	26	500 1000 2000	3,05 6,10 12,50
4	30940050 30940100 30940200 30940300	40	40	36	500 1000 2000 3000	5,50 11,00 23,00 34,00
5	30950050 30950100 30950200 30950300	50	50	45	500 1000 2000 3000	8,30 17,50 35,00 52,40
6	30960050 30960100 30960200 30960300	60	60	54	500 1000 2000 3000	12,65 25,50 51,00 76,40
8	30980200	80	80	72	2000	92,00
10	30999200	80	80	70	2000	87,90

MATERIAL **C 40**
NORMALIZE



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МЕХАНИКАЛ ПРОДАКТС

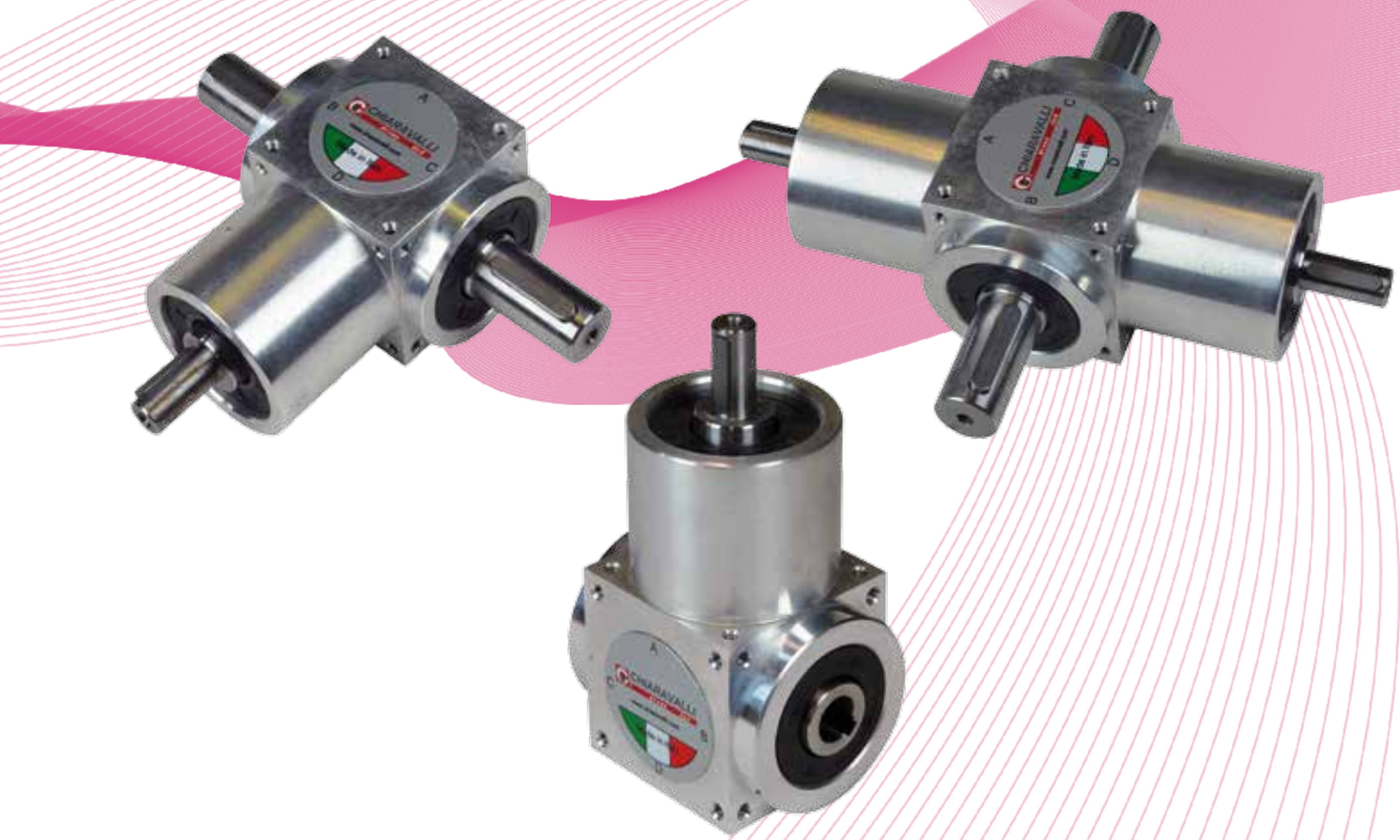
RIGHT-ANGLE

CHQ

The right-angle gear drives of the CHQ series were designed for industrial applications, where it is necessary to transmit rotary power motion between axes arranged perpendicularly.

Eight different sizes, five gear ratios (or speed multipliers) 1:1 - 1:1.5 - 1:2 - 1:3 - 1:4, shafts with diameters ranging from 11 to 85 mm, through hollow shafts with diameters from 12 to 80 mm with splines from 4 to 22 mm, or hollow shafts with UNI 8953 NT grooved profile from 6x11x14 to 10x72x82.

Also available are hollow shafts set-up for driving with locking set, and flanges with hollow shaft and spline seat for electric motor coupling in B5 and B14 versions, size from 86 to 160.
Powers up to 1,074 kW, torques up to 9,516 Nm, rotation speed up to 3,000 rpm and even faster.



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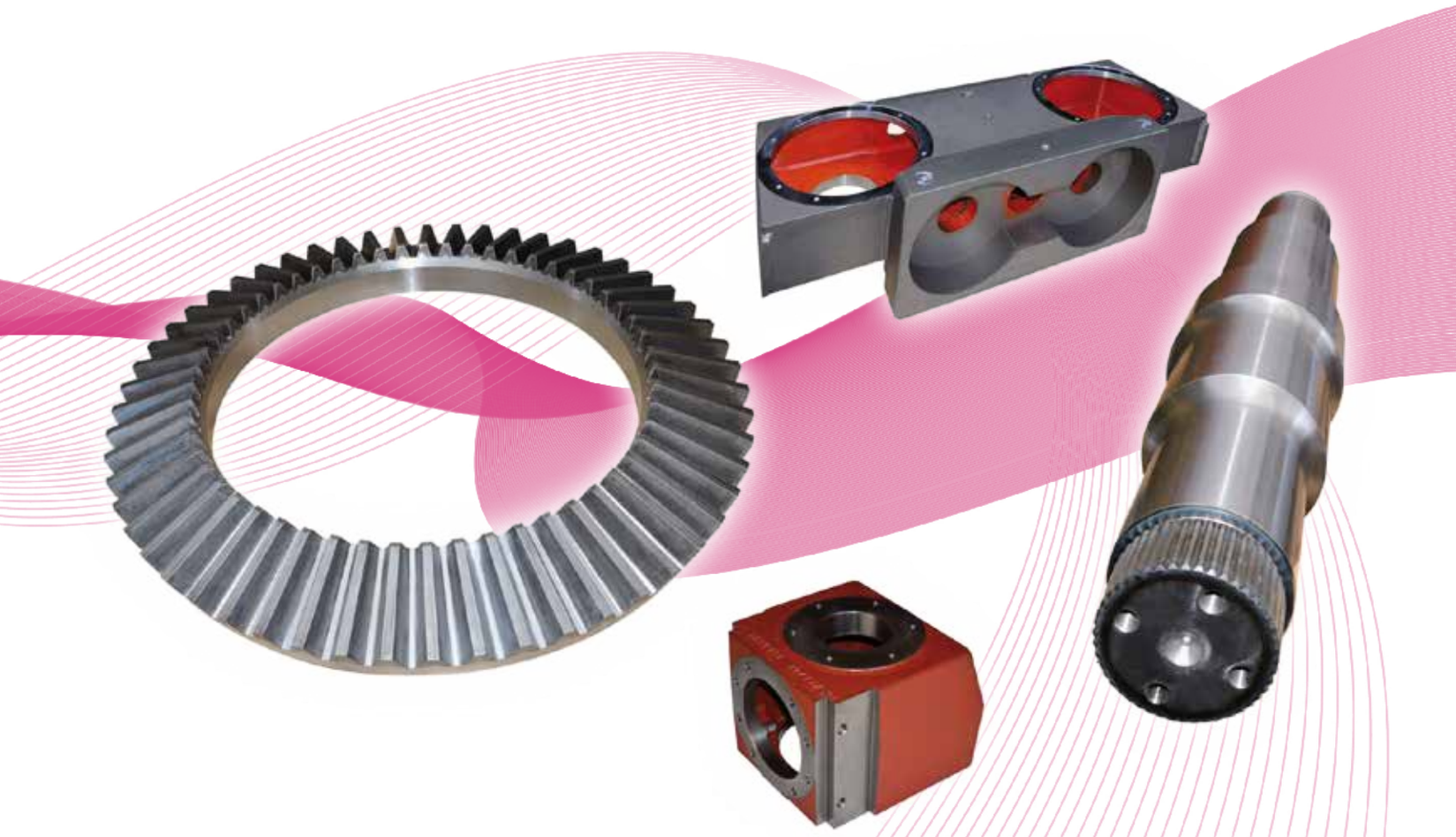
МЕХАНИКАЛ ПРОДАКТС

SPECIAL COMPONENTS MANUFACTURING

We produce high precision Gears and Special Mechanical Components.
A large and varied range of modern CNC machine tools assures large capacity production at high quality level.

Chiaravalli Group SpA co-workers, highly skilful and motivated by a great spirit of belonging to the company, operate using the most modern CAE and CAD-CAM technologies. The production is certified and assured using three-dimensional high precision measuring machines.

Chiaravalli Group SpA your technological partner for high quality production.



CHIARAVALLI GROUP SpA