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Quote senza tolleranza secondo UNI ISO 22768-1 / Precisione: **Medio**  
 Dimensions without toll. acc. to UNI ISO 22768-1 / Precision: **Medium**

Precisione/Precision	fino a 6	>6 a 30	>30 a 120	>120 a 400	>400 a 1.000	>1.000 a 2.000	>2.000 a 4.000	oltre 4.000
Gross./Medium large	± 0,2	± 0,5	± 0,8	± 1,2	± 2,0	± 3,0	± 4,0	± 5,0
Medio/Medium	± 0,1	± 0,2	± 0,3	± 0,5	± 0,8	± 1,2	± 2,0	± 3,0
Fine/Thin	± 0,05	± 0,1	± 0,15	± 0,2	± 0,3	± 0,5		

Grado di precisione angolare/Angular precision

Precisione/Precision	fino a 10	>10 a 50	>50 a 120	>120 a 400	oltre 400
Gross./Medium large	± 1° 30'	± 1° 00'	± 0° 30'	± 0° 15'	± 0° 10'
Medio/Medium	± 1° 00'	± 0° 30'	± 0° 20'	± 0° 10'	± 0° 05'
Fine/Thin	± 1° 00'	± 0° 30'	± 0° 20'	± 0° 10'	± 0° 05'

Equivalenza rugosità:  
 Roughness equivalence:  
 ISO Metodo E ISO Method E

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Riduttore tipo/ Gearbox type: <b>CL14-FL</b>		Foglio/Sheet 1 di/ of 1	
Cliente/ Customer: <b>GRU BENEDINI</b>		Formato/ Size <b>A3</b>	
Descrizione/ Description: <b>SCHEMA ESPLOSO / EXPLODED DRAWING</b>			
Materiale/ Material:	Norma/ Norm (UNI):	Tratt. Term./ Heat Treat.:	
Dimens. gr./ Dimensions (mm):	Peso grezzo/ Gross Wt (kg): [unitario/unit]	Peso finito/ Net Wt (kg): [unitario/unit]	
Rifer. assieme n°/ Assembly ref. n°:	Peso/ Wt. (kg) Olio/ Oil: 3,75 (kg)	REV.	Foglio/Sheet
<b>WX04897</b>	Data/ Date: 11/04/2005	<b>R00</b>	1 di/ of 1
Disegno parte n°/ Draw part n°:	Scala/ Scale: Q.ta/ Q.ty: 1:6	REV.	Formato/ Size
<b>WJ04897</b>	Data/ Date: 11/04/2005	<b>R00</b>	<b>A3</b>
	Pos.	Disegn./ Drw. by <i>Madau P.</i>	

## CL14-FL ratio 1/170

Z=15 M=8  
f=80  
Standard

## CL14-FL rapporto 1/180

Z=15 M=8  
f=80  
Standard

Position	Drawing n°	Weight (kg)	Description	Material / Notes	Quantity	Position	Drawing n°	Weight (kg)	Description	Material / Notes	Quantity
1	BP6254	9,26	Motor flange Ø250	EN-GJL-250 BS EN 1561	1	1	BP6254	9,26	Motor flange Ø250	EN-GJL-250 BS EN 1561	1
2	DH3813/A	10,90	Wheel housing 1° - 2° reduction	EN-GJL-250 BS EN 1561	1	2	DH3813/A	10,90	Wheel housing 1° - 2° reduction	EN-GJL-250 BS EN 1561	1
3	DI4872	33,65	Output pinion housing	EN-GJL-250 BS EN 1561	1	3	DI4872	33,65	Output pinion housing	EN-GJL-250 BS EN 1561	1
4	BF6267/24	0,860	Motor bush Ø24	39NiCrMo3 EN 10083	1	4	BF6267/24	0,860	Motor bush Ø24	39NiCrMo3 EN 10083	1
	BF6267/28	0,780	Motor bush Ø28				BF6267/28	0,780	Motor bush Ø28		
5	CR4747/A	0,050	Stud for motor flange Ø250	S355J0 EN 10025	4	5	CR4747/A	0,050	Stud for motor flange Ø250	S355J0 EN 10025	4
6	AA6267/170	0,150	Input pinion Z=14 M=2	18NiCrMo5 EN 10084	1	6	AA6267/180	0,150	Input pinion Z=13 M=2	18NiCrMo5 EN 10084	1
7	DR00152	0,930	Pinion flange 2° reduction	39NiCrMo3 EN 10083	1	7	DR00152	0,930	Pinion flange 2° reduction	39NiCrMo3 EN 10083	1
8	AB00152	0,370	Pinion 2° reduction Z=12 M=3	18NiCrMo5 EN 10084	1	8	AB00152	0,370	Pinion 2° reduction Z=12 M=3	18NiCrMo5 EN 10084	1
9	BB6259	0,054	Pivot 1° reduction	18NiCrMo5 EN 10084	3	9	BB6259	0,054	Pivot 1° reduction	18NiCrMo5 EN 10084	3
10	AK5897	0,160	Planetary gear 1° reduction Z=26 M=2	18NiCrMo5 EN 10084	3	10	AK5898	0,170	Planetary gear 1° reduction Z=27 M=2	18NiCrMo5 EN 10084	3
11	AR5902	1,13	Wheel 1° reduction Z=67 M=2	C45 EN 10083	1	11	AR5899	1,08	Wheel 1° reduction Z=68 M=2	C45 EN 10083	1
12	AC3803	2,12	Flanged pinion 3° reduction Z=15 M=3,5	18NiCrMo5 EN 10084	1	12	AC3803	2,12	Flanged pinion 3° reduction Z=15 M=3,5	18NiCrMo5 EN 10084	1
13	CH3802	1,36	Planetary gear half-cage 2° reduction	EN-GJS-400/18 BS EN 1563	1	13	CH3802	1,36	Planetary gear half-cage 2° reduction	EN-GJS-400/18 BS EN 1563	1
14	BC6259	0,130	Pivot 2° reduction	18NiCrMo5 EN 10084	3	14	BC6259	0,130	Pivot 2° reduction	18NiCrMo5 EN 10084	3
15	AW3804	0,430	Planetary gear 2° reduction Z=21 M=3	18NiCrMo5 EN 10084	3	15	AW3804	0,430	Planetary gear 2° reduction Z=21 M=3	18NiCrMo5 EN 10084	3
16	AR3815/B	2,88	Wheel 2° reduction Z=54 M=3	C45 EN 10083	1	16	AR3815/B	2,88	Wheel 2° reduction Z=54 M=3	C45 EN 10083	1
17	DL4722	7,46	Planetary gear cage 3° reduction	EN-GJS-400/18 BS EN 1563	1	17	DL4722	7,46	Planetary gear cage 3° reduction	EN-GJS-400/18 BS EN 1563	1
18	BD6259	0,150	Pivot 3° reduction	18NiCrMo5 EN 10084	3	18	BD6259	0,150	Pivot 3° reduction	18NiCrMo5 EN 10084	3
19	AJ3804	0,700	Planetary gear 3° reduction Z=24 M=3,5	18NiCrMo5 EN 10084	3	19	AJ3804	0,700	Planetary gear 3° reduction Z=24 M=3,5	18NiCrMo5 EN 10084	3
20	AR5814	5,58	Wheel 3° reduction Z=63 M=3,5	C45 EN 10083	1	20	AR5814	5,58	Wheel 3° reduction Z=63 M=3,5	C45 EN 10083	1
21	CB2411	0,560	Locking washer	18NiCrMo5 EN 10084	1	21	CB2411	0,560	Locking washer	18NiCrMo5 EN 10084	1
22	AZ00153	10,60	Involute splined shaft for output pinion	39NiCrMo3 EN 10083	1	22	AZ00153	10,60	Involute splined shaft for output pinion	39NiCrMo3 EN 10083	1
23	AE6263	4,54	Output pinion	39NiCrMo3 EN 10083	1	23	AE6263	4,54	Output pinion	39NiCrMo3 EN 10083	1
24	226209-2RS	0,410	Bearing type 6209-2RS		1	24	226209-2RS	0,410	Bearing type 6209-2RS		1
25	063653-45	0,0075	Retaining ring for shaft Ø45	UNI 7435 - DIN 471	1	25	063653-45	0,0075	Retaining ring for shaft Ø45	UNI 7435 - DIN 471	1
26	063654-85	0,025	Retaining ring for bore Ø85	UNI 7437 - DIN 472	2	26	063654-85	0,025	Retaining ring for bore Ø85	UNI 7437 - DIN 472	2
27	1485X52X10	0,062	Oil seal type 85x52x10		1	27	1485X52X10	0,062	Oil seal type 85x52x10		1
28	15OR112	0,002	O-Ring type OR-112 (Dowty 613)		4	28	15OR112	0,002	O-Ring type OR-112 (Dowty 613)		4
29	226002-2RS	0,030	Bearing type 6002-2RS		6	29	226002-2RS	0,030	Bearing type 6002-2RS		6
30	063654-32	0,0022	Retaining ring for bore Ø32	UNI 7437 - DIN 472	3	30	063654-32	0,0022	Retaining ring for bore Ø32	UNI 7437 - DIN 472	3
31	1323X15X1	0,002	Thickness type Ø23,8xØ15,2x1		3	31	1323X15X1	0,002	Thickness type Ø23,8xØ15,2x1		3
32	063653-15	0,0007	Retaining ring for shaft Ø15	UNI 7435 - DIN 471	3	32	063653-15	0,0007	Retaining ring for shaft Ø15	UNI 7435 - DIN 471	3
33	23AS2035	0,005	Axial fift wheel type AS2035		6	33	23AS2035	0,005	Axial fift wheel type AS2035		6
34	22HK2526	0,046	Bearing type HK2526		3	34	22HK2526	0,046	Bearing type HK2526		3
35	22IR20X25X26	0,037	Bearing type IR20x25x26,5		3	35	22IR20X25X26	0,037	Bearing type IR20x25x26,5		3
36	226304	0,140	Bearing type 6304		6	36	226304	0,140	Bearing type 6304		6
37	063564-52	0,0082	Retaining ring for bore Ø52	UNI 7437 - DIN 472	3	37	063564-52	0,0082	Retaining ring for bore Ø52	UNI 7437 - DIN 472	3
38	226213	0,990	Bearing type 6213		1	38	226213	0,990	Bearing type 6213		1
39	063654-120	0,077	Retaining ring for bore Ø120	UNI 7437 - DIN 472	1	39	063654-120	0,077	Retaining ring for bore Ø120	UNI 7437 - DIN 472	1
40	14110X75X12	0,093	Oil seal type 110x75x12		1	40	14110X75X12	0,093	Oil seal type 110x75x12		1
41	2222216	2,10	Bearing type 22216		1	41	2222216	2,10	Bearing type 22216		1
42	063654-140	0,088	Retaining ring for bore Ø140	UNI 7437 - DIN 472	1	42	063654-140	0,088	Retaining ring for bore Ø140	UNI 7437 - DIN 472	1
43	14140X80X12	0,160	Oil seal type 140x80x12		1	43	14140X80X12	0,160	Oil seal type 140x80x12		1
44	046873-8X26	0,006	Spring pin Ø8x26	UNI 6873 - DIN 1481 - ISO 8752	1	44	046873-8X26	0,006	Spring pin Ø8x26	UNI 6873 - DIN 1481 - ISO 8752	1
45	046873-8X40	0,009	Spring pin Ø8x40	UNI 6873 - DIN 1481 - ISO 8752	1	45	046873-8X40	0,009	Spring pin Ø8x40	UNI 6873 - DIN 1481 - ISO 8752	1
46	17SO38-330528	0,041	Filler plug 3/8" (brass)		1	46	17SO38-330528	0,041	Filler plug 3/8" (brass)		1
47	17CA38-320467	0,010	Filler plug 3/8" (aluminium)		1	47	17CA38-320467	0,010	Filler plug 3/8" (aluminium)		1
48	389025-10X1	0,007	Grease nipples 10x1		1	48	389025-10X1	0,007	Grease nipples 10x1		1
49	063653-60	0,013	Retaining ring for shaft Ø60	UNI 7435 - DIN 471	1	49	063653-60	0,013	Retaining ring for shaft Ø60	UNI 7435 - DIN 471	1
50	015931GR8X40	0,021	Hexagon socket head cap screw TCE M8x40	UNI 5931 - DIN 912	3	50	015931GR8X40	0,021	Hexagon socket head cap screw TCE M8x40	UNI 5931 - DIN 912	3
51	015931GR10X45	0,037	Hexagon socket head cap screw TCE M10x45	UNI 5931 - DIN 912	4	51	015931GR10X45	0,037	Hexagon socket head cap screw TCE M10x45	UNI 5931 - DIN 912	4
52	015931GR10X30	0,028	Hexagon socket head cap screw TCE M10x30	UNI 5931 - DIN 912	1	52	015931GR10X30	0,028	Hexagon socket head cap screw TCE M10x30	UNI 5931 - DIN 912	1
53	037473-MA10	0,013	Hexagon lock-nut with nylon insert M10x1,5	UNI 7473 - DIN 982	10	53	037473-MA10	0,013	Hexagon lock-nut with nylon insert M10x1,5	UNI 7473 - DIN 982	10
54	015739ZB10X10	0,017	Hexagon cap screw TE M10x10	UNI 5739 - DIN 933	1	54	015739ZB10X10	0,017	Hexagon cap screw TE M10x10	UNI 5739 - DIN 933	1
55	00737912-10X90	0,100	Hexagon socket cap screw TCCE Ø12-M10x90	ISO 7379	6	55	00737912-10X90	0,100	Hexagon socket cap screw TCCE Ø12-M10x90	ISO 7379	6
<b>Gearbox total weight (kg)</b>					<b>104</b>	<b>Gearbox total weight (kg)</b>					<b>104</b>