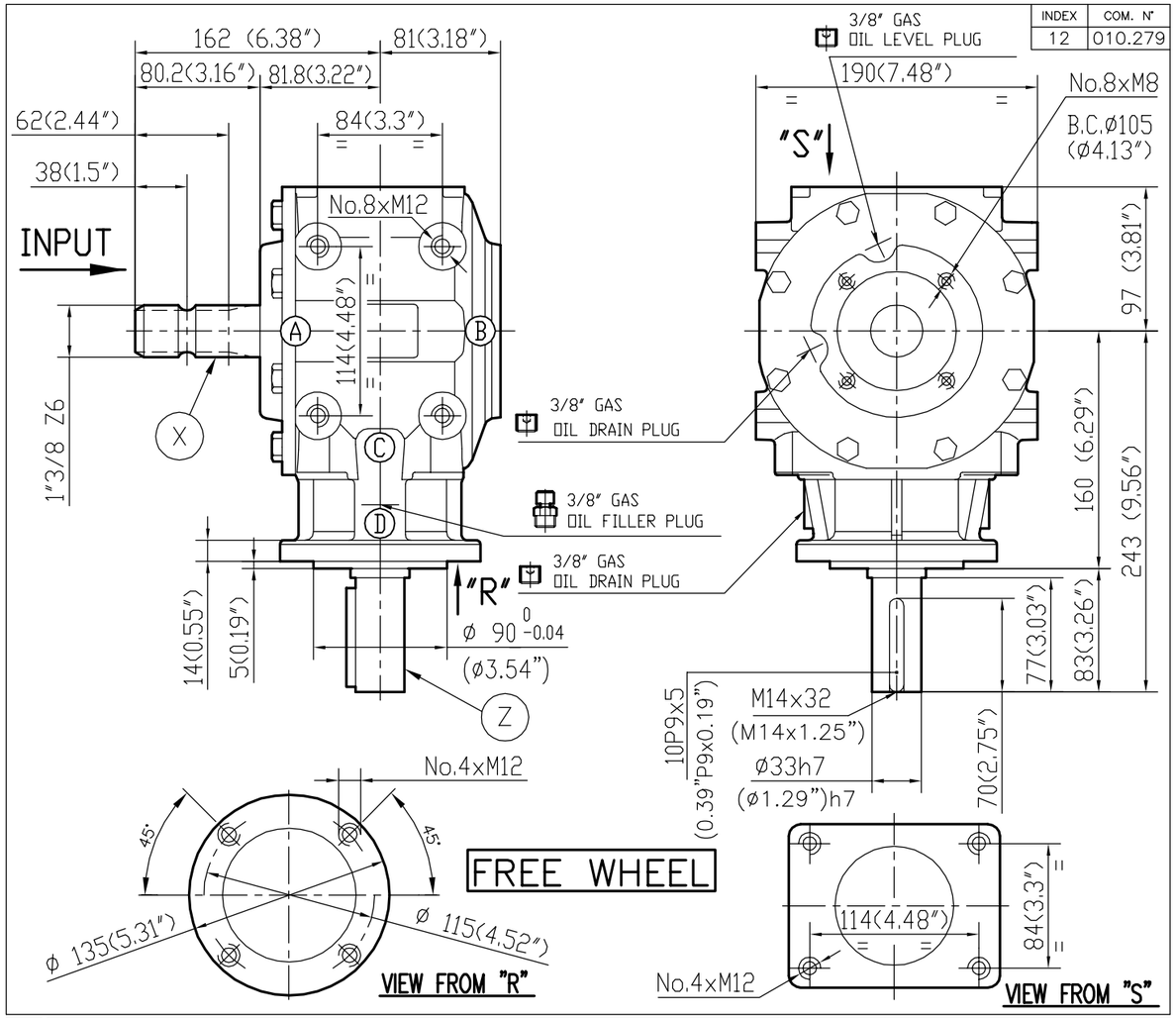
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COMPANY	REF.	DESIGNATION
COMMERCIAL	–	T–311J
	DATE 24/jun/05	CODE 9.311.874.10

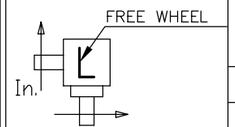
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Ratio i	Rated input r.p.m.	Rated input power HP	Rated input power kW	Rated output torque da Nm	Weight Kg	Lubricant Oil ☒ Type	Lubricant Grease ☐ Quantity Kg.
1 : 3	540	50	36.8	21	20.2	SAE.90EP	Lt. 1.2

SPEED INCREASING UNIT

Gear Arrangement



Bevel couplings							Cylindrical couplings						
Helicoidal	Straight	Teeth number Z 1	Z 2	Z 3	Z 4	Module M.	Helicoidal	Straight	Teeth number Z 1	Z 2	Z 3	Z 4	Module M.
	*	12	36			4.35							

Bearings	
A	6307
B	6307
C	32207
D	30207
E	
F	
G	
H	

Components material

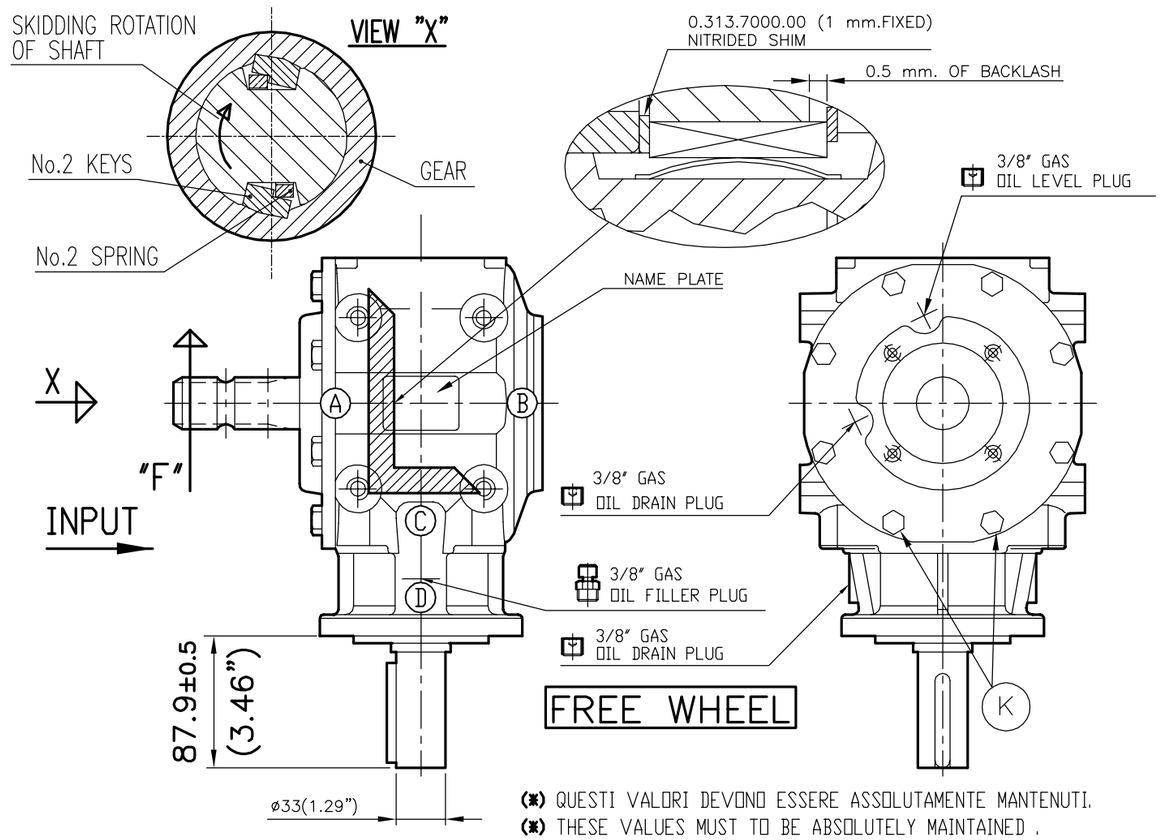
Casing	Shaft X	Shaft Z	Bevel gear	Spur gear
ASTM 60–40–18	AISI 3120	AISI 3120	AISI 3120	

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REF. –	COMPANY : COMMERCIAL		INDEX 12	COM. N° 010.279
RATIO 1 : 3	FIG. MONT. 21 – 22	COD.LETT. T–311J	COD.NUM. 311	CODE 9.311.874.10



(*) QUESTI VALORI DEVONO ESSERE ASSOLUTAMENTE MANTENUTI.
(*) THESE VALUES MUST TO BE ABSOLUTELY MAINTAINED .

NOTE DI MONTAGGIO

- GIOCO DI INGRANAMENTO 0.13 ÷ 0.35 mm.
- PRECARICARE L'ASSE DI USCITA A 4÷10 kgcm (*) (SENZA PARAOLIO) .
- GIOCO ASSE DI ENTRATA 0÷0.2 mm (SENZA PARAOLIO) .
- SERRARE LE VITI COPERCHIO IN POS."A" A 5÷6.4 Kgm.
- AVVITARE LE VITI COD.8.1.2.00311 SULLA FLANGIA IN POS."D" SENZA PRECARICHI
- APPLICARE SILICONE TRA COP. E SCATOLA IN POS."A".
- NEBULIZZARE ALL'INTERNO DELLA SCATOLA CON "NUCLEOIL 10" COME ULTIMA OPERAZIONE
- LE VITI IN POS."K" VANNO MONTATE CON SILICONE .
- LA FRECCIA "F" INDICA LA ROTAZIONE DI LAVORO DELL'ALBERO (SI HA QUINDI LO LITTAMENTO CON ROTAZIONE OPPOSTA).
- IN POS. "A" TRA CUSC. E CORONA METTERE SOLAMENTE LO SPESS. COD. 0.313.7000.00.
- AGGIUNGERE CON PENNELLO UN SOTTILE STRATO DI MOLYKOTE TIPO GN/PLUS COD. 8.8.9.02185 SUL ø INTERNO DELL'INGRANAGGIO E SUL ø ESTERNO DELL'ALBERO, TRALASCIANDO LE 2 CAVE PER LINGUETTA.
- CONTROLLARE 100% QUOTA DELLA SPORGENZA DEL PIGNONE IN USCITA (87.9±0.5).

ASSEMBLY NOTES

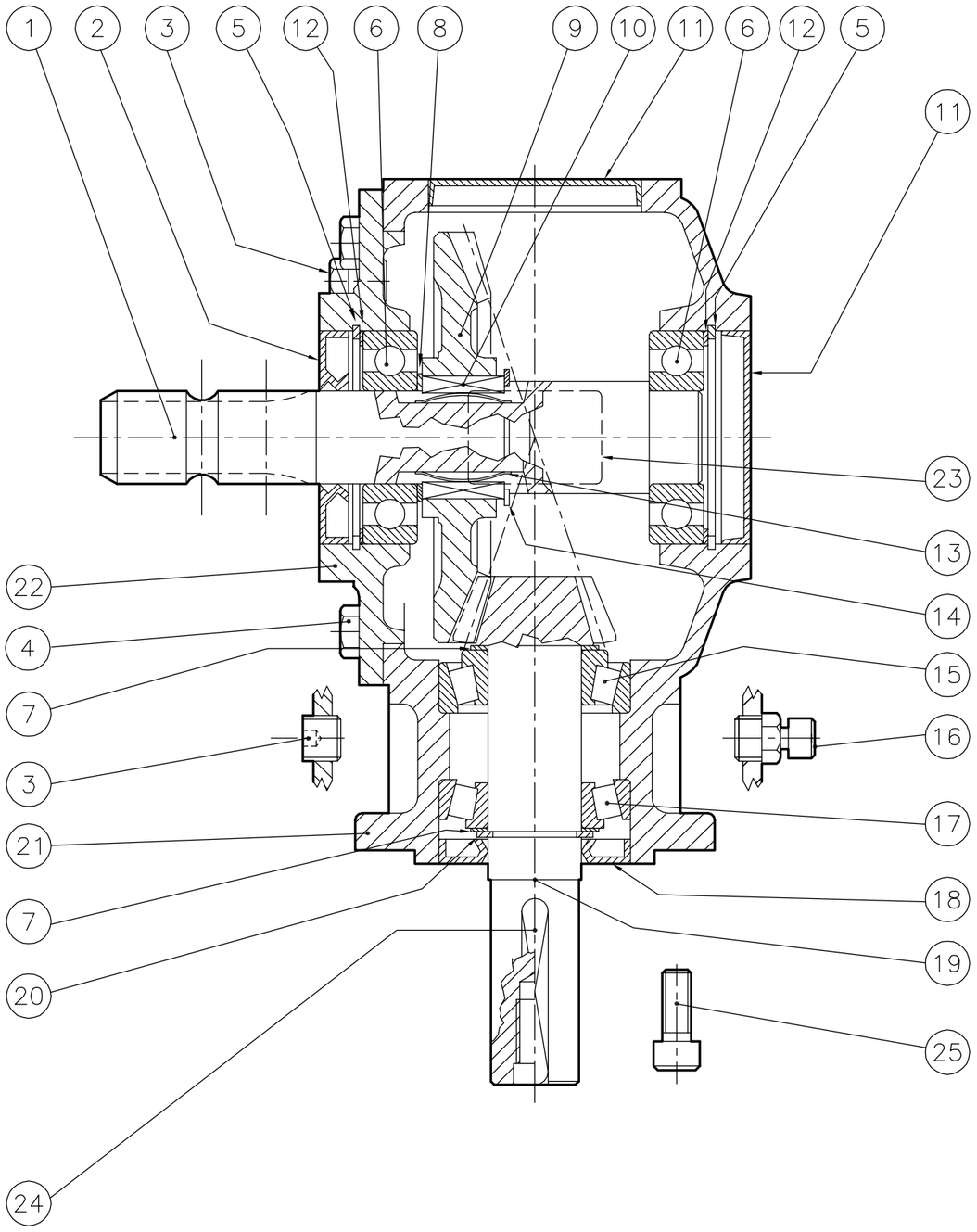
- GEARS BACKLASH 0.13 ÷ 0.35 mm.
- PRELOAD THE BEARINGS OF OUTPUT SHAFT AT 4÷10 Kgcm (*) (WHITOUT OIL SEAL).
- CLEARANCE INPUT SHAFT 0÷0.2 mm (WHITOUT OIL SEAL).
- TIGHTEN THE COVER BOLTS IN POS."A" AT 5÷6.4 Kgm.
- ASSEMBLE THE BOLTS COD.8.1.2.00311 ON THE FLANGE POS."D" WITHOUT PRELOAD .
- APPLY SILICONE SEALANT BETWEEN COVER AND HOUSING IN POS."A".
- SPRAY "NUCLEOIL 10" INSIDE THE HOUSING AS LAST OPERATION
- APPLY SILICONE SEALANT ON BOLTS IN POS."K" .
- THE ARROW "F" INDICATES THE WORK ROTATION OF SHAFT (SU THE SKIDDING IS WITH OPPOSED ROTATION) .
- IN POS. "A", INSERT THE SHIM COD. 0.313.7000.00 ONLY BETWEEN BEARING AND GEAR CROWN.
- APPLY A SMALL LAYER OF MOLYKOTE TYPE "GN/PLUS" CODE 8.8.9.02185 WITH BRUSH ON INSIDE DIA. OF GEAR AND ON OUTSIDE DIA. OF SHAFT.
DON'T APPLY MOLYKOTE ON TWO KEYS SEAT.
- CHECK 100% THE DIMENSION OF OUTPUT SHAFT OUTRIGGEN (87.9±0.5) .

THEORETICAL SHIMS: (A) 1.8 mm (B) 1.7 mm (C) 2.15 mm (D) 0.85 mm

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REF. . COMPANY : COMMERCIAL | INDEX 12 | COM. N° 010.279

RATIO	FIG. MONT.	COD.LETT. T–311J	CODE
1 : 3	21 – 22	COD.NUM. 311	9.311.874.10

POS.	DRG. Nr.	PCS.	DESCRIPTION
1	0.311.3201.00	1	1” 3/8 Z6 INPUT SHAFT
2	8.7.1.00315	1	DUST LIP (35x80x10)
3	8.6.6.00201	3	3/8” GAS OIL PLUG WITH EMBEDDED HEXAGON
4	8.1.1.00061	8	BOLT M10X25 HHB (8.8)
5	8.5.2.00030	2	SNAP RING (80x83.5x2.5 , FOR HOLES)
6	8.0.1.00049	2	BALL BEARING 6307 (35x80x21)
7	0.259.7500.00	2	SHIM KIT (35.3x48)
8	0.313.7000.00	1	NITRIDED SHIM (35.3x48x1)
9	0.311.6214.00	1	CROWN WHEEL Z36 M4.35
10	0.267.7109.00	2	KEY FOR FREE WHEEL
11	8.7.0.00790	2	OIL CAP 80X10
12	0.267.7500.00	2	SHIM KIT (69x79.7)
13	0.267.7110.00	2	RUBBER BAND
14	8.5.1.00712	1	SNAP RING (42x39.5x1.75 , FOR SHAFTS)
15	8.0.9.00127	1	ROLLER BEARING 32207 (35x72x24.25)
16	8.6.7.00161	1	3/8” GAS OIL VENT PLUG
17	8.0.9.00026	1	ROLLER BEARING 30207 (35x72x18.25)
18	8.7.3.00055	1	OIL SEAL (35x72x10)
19	0.304.5011.00	1	PINION SHAFT Z12 M4.35
20	8.5.1.00583	1	SNAP RING (35x33x2.5 , FOR SHAFTS)
21	0.311.0303.00	1	HOUSING
22	0.311.1310.00	1	COVER
23	0.124.7135.00	1	NAME PLATE
24	8.4.1.01689	1	HARDENED PARALLEL KEY A (10x8x65)
25	8.1.2.00311	4	M12x30 HEX SOCKET HEAD CAP SCREWS (8.8) UNI5931

SHIPPED SEPARATELY

POS.	DRG. Nr.	PCS.	DESCRIPTION