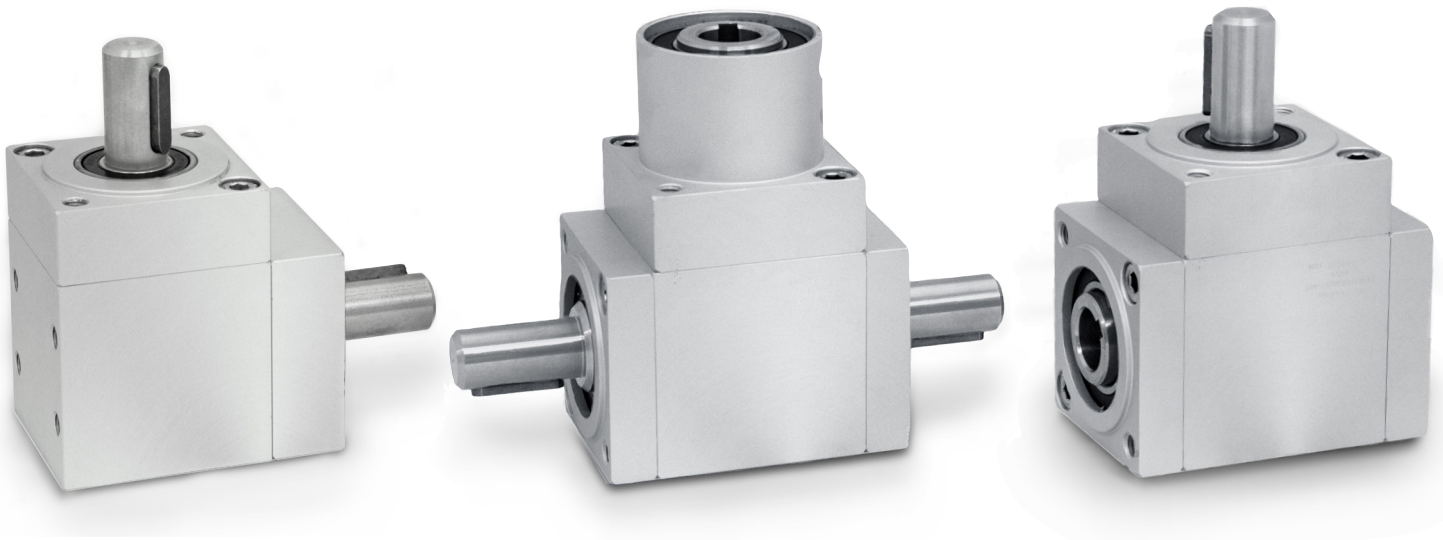




- Rapporti di trasmissione disponibili: **1:1 - 1:2** (standard) - **2:1** (disponibile nelle versioni «A» - «B» - «C»); (Tab. 3).
- Rapporti **1/2** e **2/1** sono disponibili solo con ingranaggi spiroidali.
- Corpo in alluminio, anodizzato; alberi in acciaio inox AISI 303.
- Coppia trasmissibile **90 NM**. Carico radiale **150 kg** - carico assiale **15 kg** (Tab. 4).
- Modelli (Tab. 1):
 - Versione «A» con 2 uscite; peso 2500 g.
 - Versione «B» con 3 uscite; peso 2700 g.
 - Versione «C» (rotazione contraria) con 3 uscite; peso 2770 g.
 - Versione «D» con 3 uscite, 2 ad albero cavo passante; 2700 g.
- Alberi di uscita standard: **M** = maschio **Ø20** / **F** = femmina **Ø20** (Tab. 9).

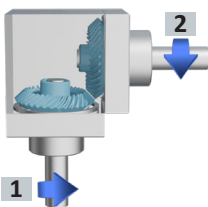
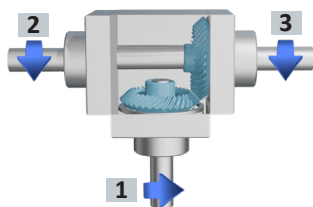
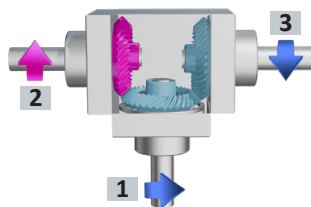
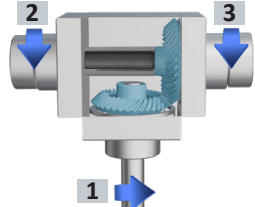
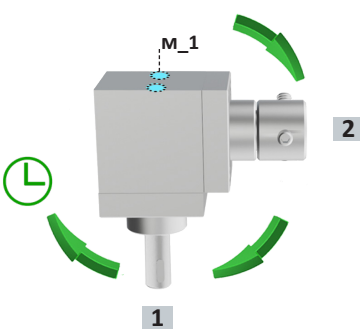
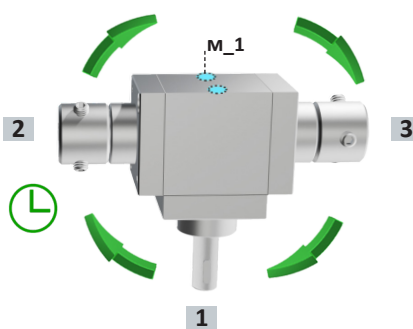
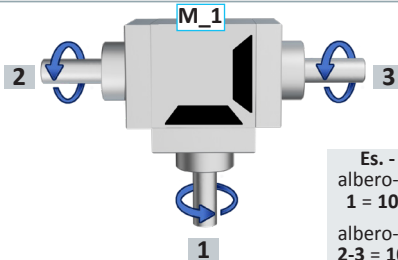
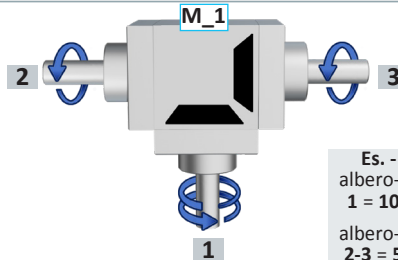
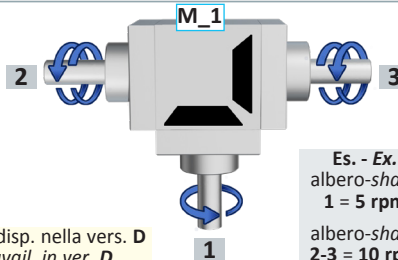
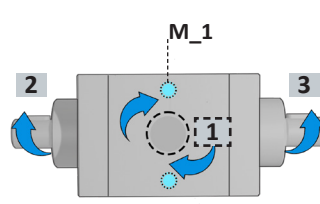
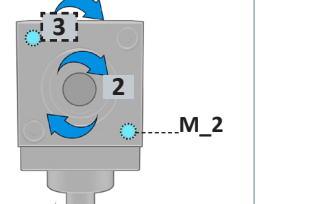
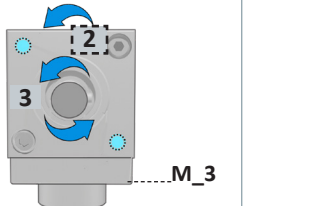
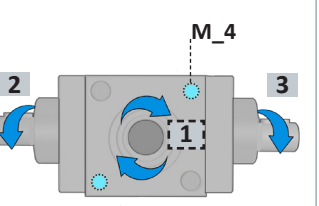
Disponibile a richiesta:

- Corpo in acciaio **inox AISI 303**.
- Modelli con ingranaggi conici a **dentatura spiroidale** disponibili in tutte le versioni nel rapporto **1/1** (Tab. 2).
- Ingrassatore disponibile in tutte le versioni (Tab. 5).

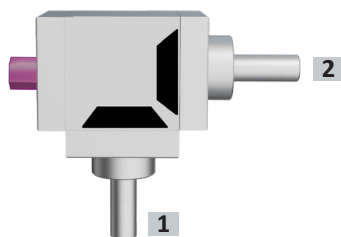
- Available transmission ratios: **1:1 - 1:2** (standard) - **2:1** (available in versions «A» - «B» - «C»); (Tab. 3).
- Ratios **1/2** and **2/1** are only available with spiral gears.
- Aluminium case, anodised; AISI 303 stainless steel shafts (standard).
- Torque **45 NM**. Radial load **75 kg** - axial load **7,5 kg** (Tab. 4).
- Models (Tab. 1):
 - Version «A» with 2 outputs; weight 2500 g.
 - Version «B» with 3 outputs; weight 2700 g.
 - Version «C» (opposite rotation) with 3 outputs; weight 2770 g.
 - Version «D» with 3 outputs, 2 through hollow shafts; weight 2700 g.
- Standard output shafts: **M** = male **Ø20** / **F** = female **Ø20** (Tab. 9).

Available on request:

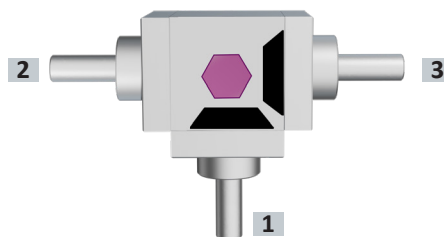
- Case in **stainless steel AISI 303**.
- Models with **spiral bevel gears** are available in all versions with transmission ratio **1/1** (Tab. 2).
- Grease fitting is available in all versions (Tab. 5).

FORMA COSTRUTTIVA E SENSO DI ROTAZIONE - CONFIGURATION AND DIRECTION OF ROTATION				Tab. 1	
«A» 	«B» 	«C» 	«D» 		
2 uscite, rotazione concorde 2 outputs, same rotation direction		3 uscite, rotazione concorde 3 outputs, same rotation direction			
		3 uscite, 1 con rotazione discorde 3 outputs, 1 with opposite rotation			
		3 uscite, 2 cave, rot. concorde 3 outputs, 2 hollow shafts, same rot.			
IDENTIFICAZIONE ALBERI E RIFERIMENTI - SHAFT IDENTIFICATION AND REFERENCES				Tab. 2	
Esempio - Example 		Esempio - Example 		L'albero 1 è sempre raffigurato dalla parte opposta dei fori di fissaggio M_1, è il riferimento per: forma costruttiva, senso di rotazione e rapporto di trasmissione. Per convenzione l'albero 1, è rappresentato con rotazione in senso orario, gli altri seguono il senso orario. <i>Shaft 1 is always shown on the side opposite the M_1 fixing bores and is the reference for: configuration, direction of rotation, gear ratio.</i> <i>By convention, Shaft 1 is shown rotating clockwise, the others follow the clockwise direction.</i>	
RAPPORTI DI TRASMISSIONE DISPONIBILI - AVAILABLE TRANSMISSION RATIOS					Tab. 3
Il rapporto fa riferimento all'albero 1, opposto ai fori M_1 - The ratio refers to shaft 1, opposite the M_1 fixing bores.					
Rapporto - Ratio 1/1  Es. - Ex. albero-shaft: 1 = 10 rpm albero-shaft: 2-3 = 10 rpm		Rapporto - Ratio 1/2  Es. - Ex. albero-shaft: 1 = 10 rpm albero-shaft: 2-3 = 5 rpm		Rapporto - Ratio 2/1  Es. - Ex. albero-shaft: 1 = 5 rpm albero-shaft: 2-3 = 10 rpm	
		non disp. nella vers. D not avail. in ver. D			
POSIZIONI DI FISSAGGIO M_ - M_ FIXING POSITIONS				Tab. 4	
L'albero 1 di riferimento, per convenzione, è rappresentato con rotazione oraria; il corpo viene ruotato di 90° rispetto alla posizione precedente. <i>Shaft 1 shaft 1 remains the reference and is conventionally shown rotating clockwise; the housing is rotated by 90° from the previous position.</i>					
M_1 = vista dall'alto - top view 0° 		M_2 = vista laterale destra - right side view 90° 			
rotazione concorde - same rotation		rotazione discorde - opposite rotation			
+ 90° ↑		+ 90° ↓			
M_3 = vista laterale sinistra - left side view 270° 		M_4 = vista dal basso - bottom view 180° 			
rotazione concorde - same rotation		rotazione discorde - opposite rotation			
+ 90° → DX		+ 90° ← SX			
rotazione discorde - opposite rotation		rotazione concorde - same rotation			
		rotazione discorde - opposite rotation			

Rinvii con 2 alberi - Gearboxes with 2 shafts



Rinvii con 3 alberi - Gearboxes with 3 shafts

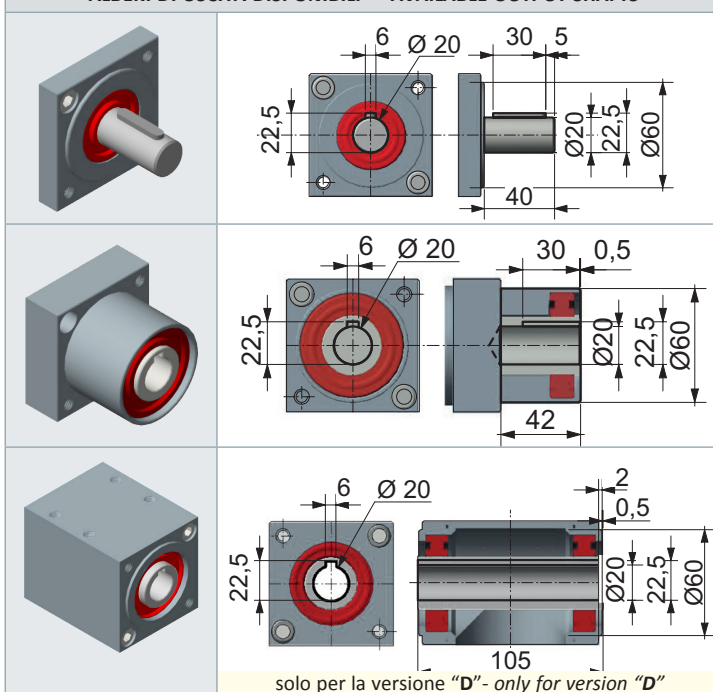


Consigliato in condizioni gravose o per prolungare la vita utile. Ripristinare periodicamente il lubrificante secondo le indicazioni dell'Ufficio Tecnico. Fornito nella posizione standard illustrata; altre posizioni su richiesta.

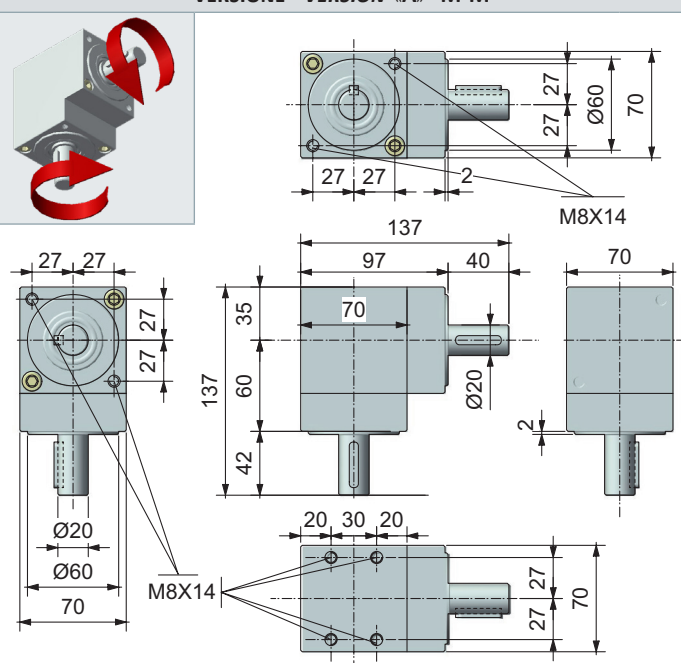
Recommended for demanding conditions or extended service life. Periodically replenish the lubricant as instructed by our Technical Department. Supplied in the standard position shown; other positions on request.

VERSIONI CON DIMENSIONI DI INGOMBRO - VERSIONS WITH DIMENSION DRAWINGS

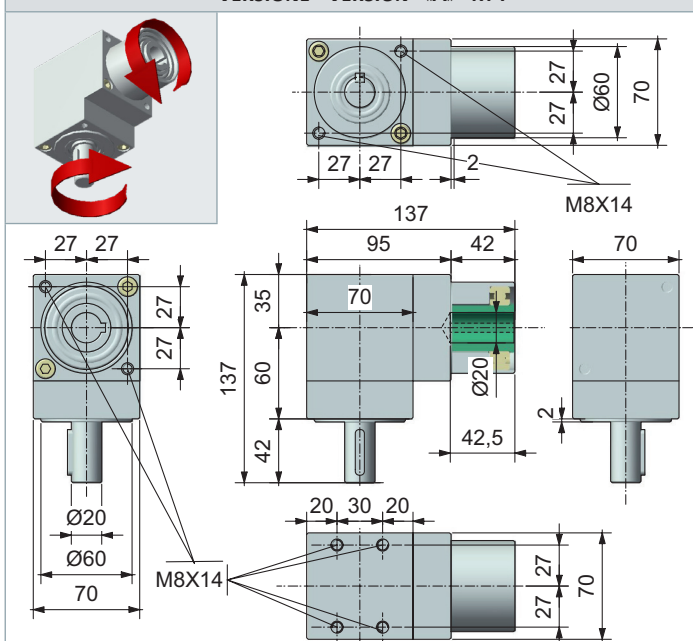
ALBERI DI USCITA DISPONIBILI - AVAILABLE OUTPUT SHAFTS



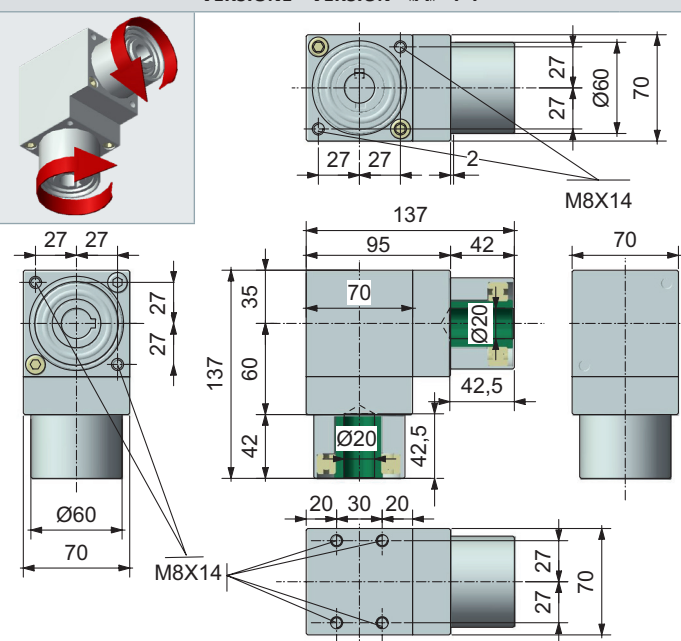
VERSIONE - VERSION «A» M-M



VERSIONE - VERSION «A» M-F



VERSIONE - VERSION «A» F-F



Technical drawing of the 3D printed part '3D-Druck 1' showing three views: isometric, front, and side. The isometric view shows the part with red arrows indicating rotation. The front view shows a square base with a central hole and four mounting holes. The side view shows the profile of the part with a central hole and a base. Dimensions are provided in millimeters.

Isometric View:

- Overall width: 70 mm
- Overall height: 70 mm
- Central hole diameter: Ø60 mm
- Mounting holes: 4 holes, 27 mm from center to center (27 mm x 27 mm grid)
- Mounting hole diameter: M8X14

Front View:

- Overall width: 70 mm
- Overall height: 137 mm
- Central hole diameter: Ø60 mm
- Mounting holes: 4 holes, 27 mm from center to center (27 mm x 27 mm grid)
- Mounting hole diameter: M8X14

Side View:

- Overall width: 70 mm
- Overall height: 137 mm
- Central hole diameter: Ø60 mm
- Mounting holes: 4 holes, 27 mm from center to center (27 mm x 27 mm grid)
- Mounting hole diameter: M8X14

[illegible]

Technical drawing of the 3D printed part '3D-Druck 1' showing three views: isometric, front, and side. The isometric view shows the part with red arrows indicating rotation. The front view shows a square base with a central hole and four mounting holes. The side view shows the profile of the part. Dimensions are given in mm. Key features include a central hole of diameter 20mm, four mounting holes of diameter 6mm, and a central hole of diameter 60mm. The part is made of aluminum 6061.

Technical drawing of the 3D printed part '3D-Druck 1'. The drawing includes an isometric view and three orthographic views (front, top, and side) with detailed dimensions.

Isometric View: Shows the part with red arrows indicating rotational degrees of freedom around three axes.

Orthographic Views and Dimensions:

- Front View (Top):** Shows a cylindrical part with a diameter of $\varnothing 60$ and a height of 70. The base has four mounting holes with a diameter of $\varnothing 20$, spaced 27 units apart. The total width is 124 units.
- Top View (Middle):** Shows the part from above, with a total width of 204 units and a height of 137 units. The central section has a width of 70 units and a height of 35 units. The base has four mounting holes with a diameter of $\varnothing 20$, spaced 27 units apart. The total width is 124 units.
- Side View (Bottom):** Shows the part from the side, with a total width of 124 units and a height of 70 units. The base has four mounting holes with a diameter of $\varnothing 20$, spaced 27 units apart. The total width is 124 units.

Key Dimensions:

- Overall width: 204
- Overall height: 137
- Base diameter: $\varnothing 60$
- Base mounting holes: $\varnothing 20$
- Mounting hole spacing: 27
- Mounting hole diameter: $\varnothing 20$
- Mounting hole thread: M8X14

[illegible]

Technical drawing of a 3D-printed mechanical part, showing multiple views (isometric, top, front, side, and bottom) with dimensions and annotations.

Isometric View (Top Left): Shows the part with red arrows indicating rotational degrees of freedom around three axes.

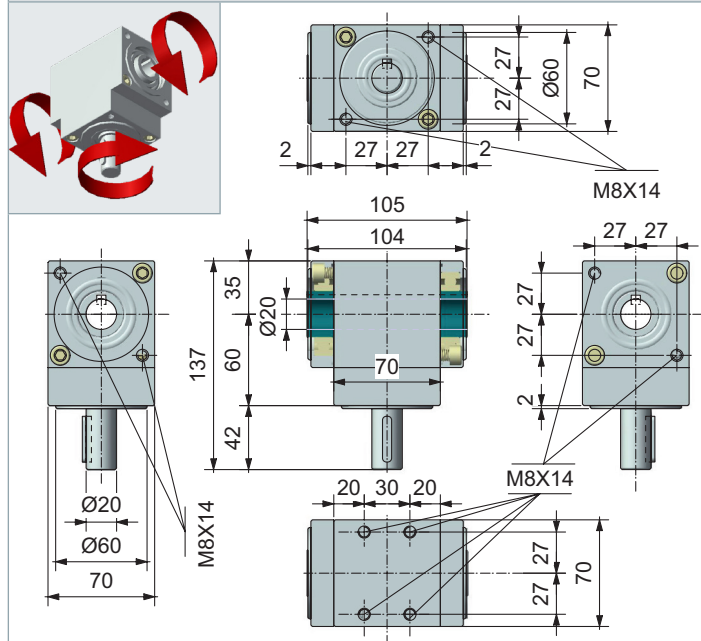
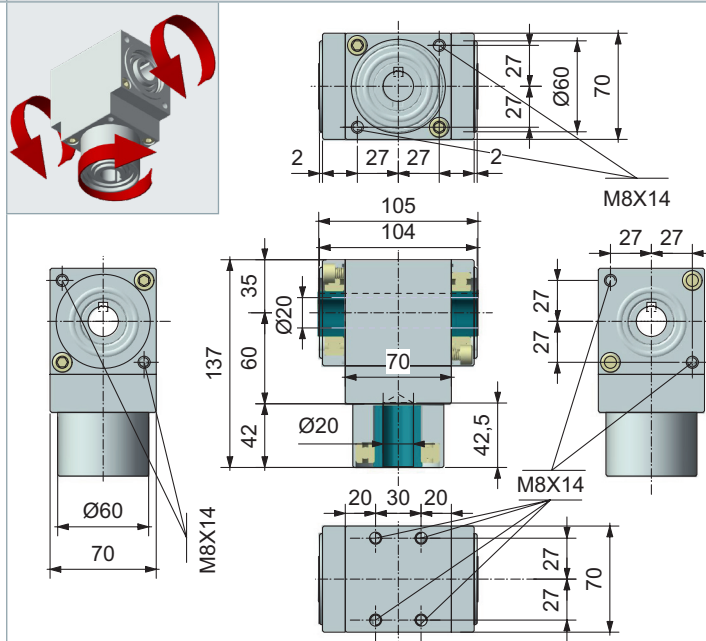
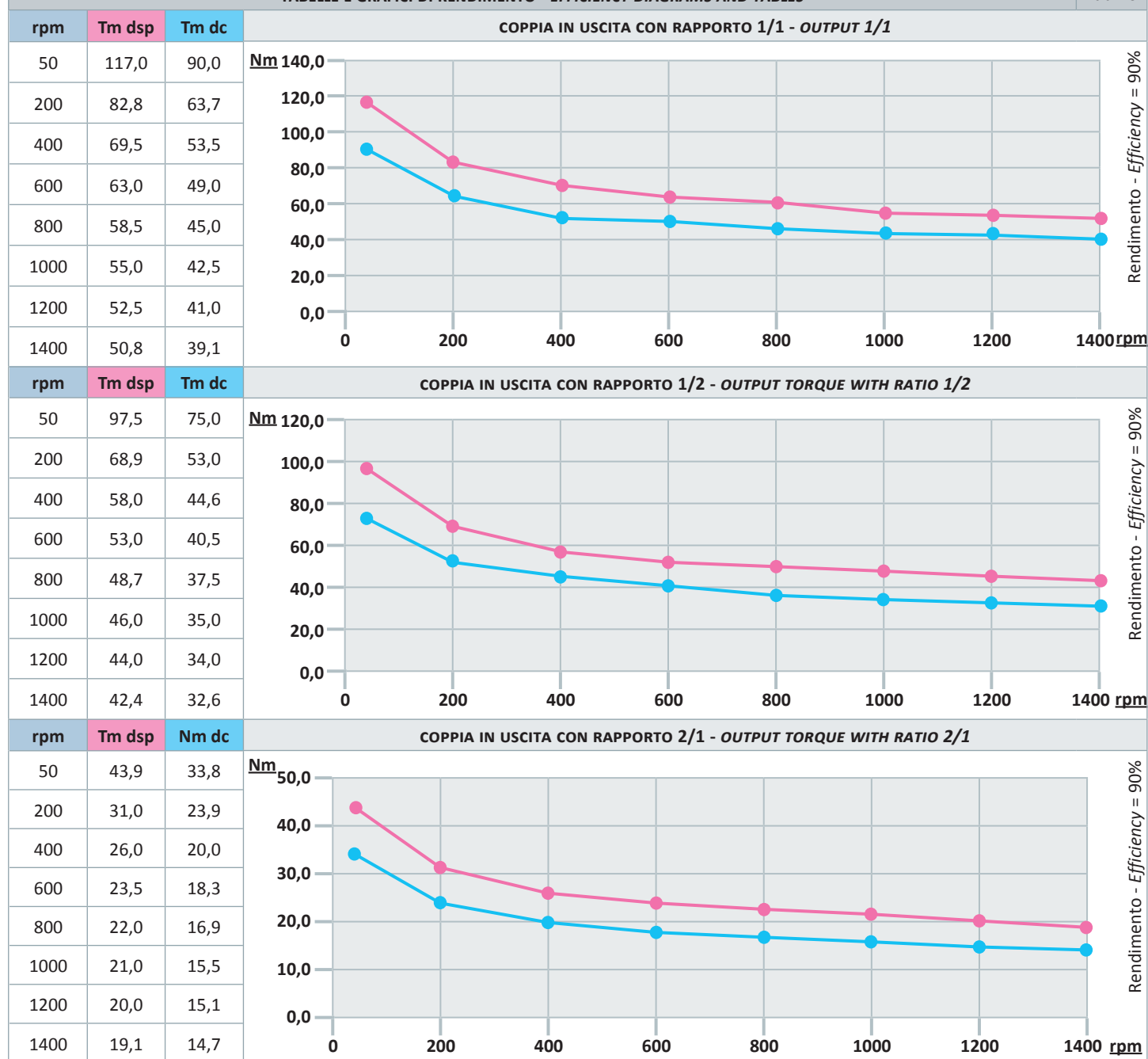
Top View (Center): Shows the top of the part with dimensions: 204 (total width), 27 (flange thickness), 27 (flange thickness), 42 (flange radius), 120 (main body width), 42 (flange radius), 70 (main body width), 35 (flange thickness), 60 (main body height), 42 (flange radius), 42,5 (flange radius), 70 (main body width), 42,5 (flange radius), 20 (flange radius), 30 (flange radius), 20 (flange radius), 27 (flange thickness), 27 (flange thickness), 70 (main body height).

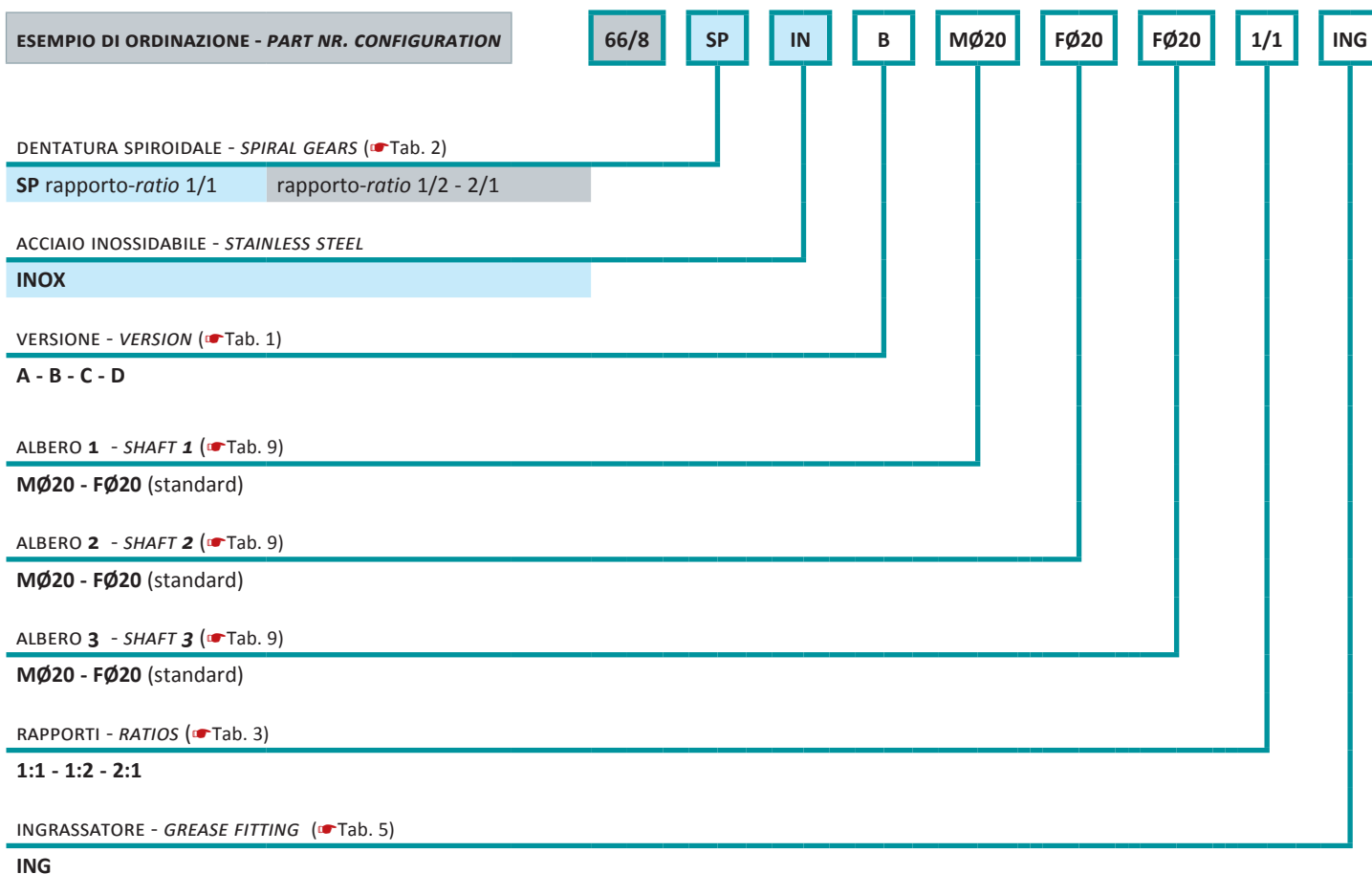
Front View (Bottom Left): Shows the front of the part with dimensions: 137 (total height), 35 (flange thickness), 60 (main body height), 42 (flange radius), 42,5 (flange radius), 70 (main body width), 42,5 (flange radius), 20 (flange radius), 30 (flange radius), 20 (flange radius), 27 (flange thickness), 27 (flange thickness), 70 (main body height).

Side View (Bottom Right): Shows the side of the part with dimensions: 27 (flange thickness), 27 (flange thickness), 70 (main body height).

Bottom View (Bottom Center): Shows the bottom of the part with dimensions: 20 (flange radius), 30 (flange radius), 20 (flange radius), 27 (flange thickness), 27 (flange thickness), 70 (main body height).

Annotations: M8X14 (thread specification), Ø60 (hole diameter), Ø20 (hole diameter).

VERSIONE - VERSION «D» M-F-F ALBERO PASSANTE - THROUGH-HOLLOW SHAFT

VERSIONE - VERSION «D» F-F-F ALBERO PASSANTE - THROUGH-HOLLOW SHAFT

TABELLE E GRAFICI DI RENDIMENTO - EFFICIENCY DIAGRAMS AND TABLES
Tab. 10




opzione esclusiva - *exclusive option*

opzionale - *optional*

- **Tm** = coppia massima in Nm - *max torque in Nm*
- **dc** = dentatura conica - *bevel gearing*
- **dsp** = dentatura spiroidale - *spiral gearing*
- Per la scelta del rinvio, consigliamo di consultare le tabelle e i dati tecnici riportati nelle "Informazioni generali" di questo catalogo (pag. 4 - 7)
- Per abbreviazioni e sigle consultare il «glossario» nelle "Informazioni generali" di questo catalogo (pag. 7).
- *For the selection of the gearbox, we advise to consult the tables, and the technical data shown in the "General Information" of this catalog (p. 4 - 7)*
- *For abbreviations and acronyms consult the «glossary» in the "General Information" of this catalog (p. 7)*