

# PULLEYS

EN Pulleys.  
IT Carrucole.  
FR Poules.  
DE Seilrollen.  
ES Pulses.  
PT Polias.  
SE Replock.  
FI Käykiypörjen.

NO Trinsen.  
DK Toljer.  
NL Katrollen.  
SI Škrice.  
SK Kladky.  
RO Scripteli.  
CZ Klackam.



MADE IN ITALY  
EN 12278:2007

Regulation (EU) 2016/425  
Personal Protective Equipment against falls from a height.



**CT**  
climbing  
technology

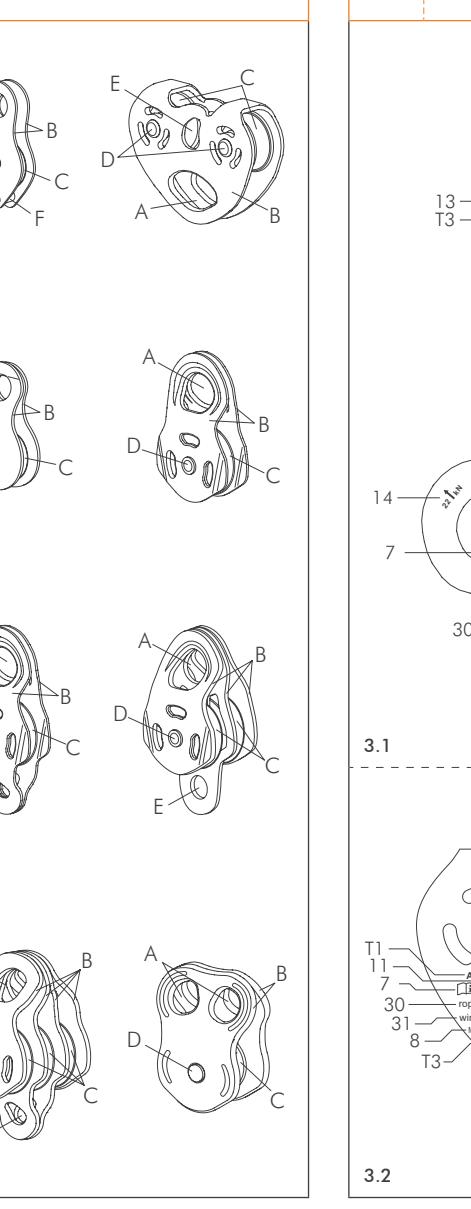
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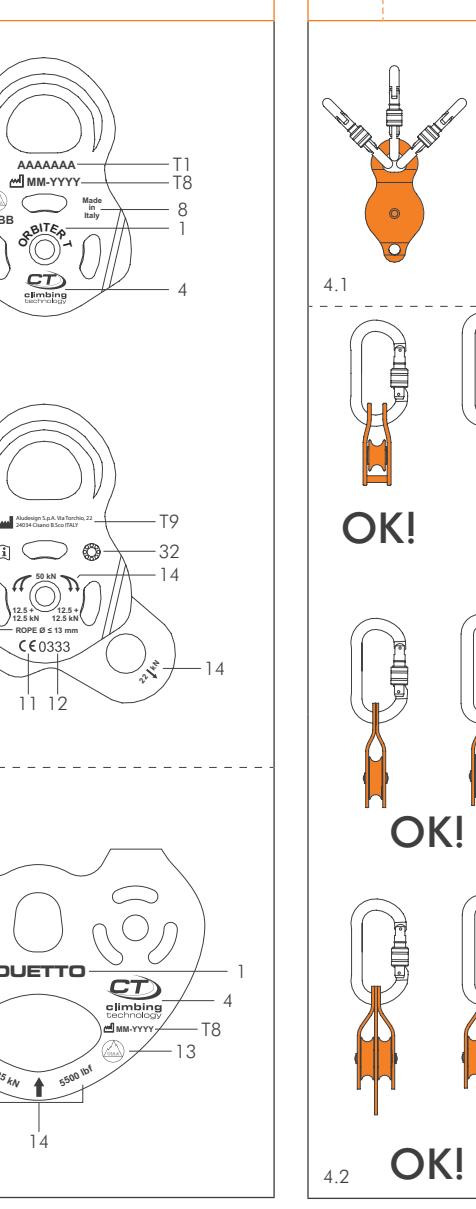
## 1 MODELS / TECHNICAL DATA

MODEL	ORBITER F	ORBITER M	ORBITER A	DUAL	ORBITER S	ORBITER D	ORBITER T	ORBITER L	ORBITER H	DUETTO
REF. NO.										
	100 g	90 g	104 g	123 g	180 g	215 g	330 g	445 g	465 g	290 g
MINIMUM BREAKING LOAD (MBL)	30 kN 15 15	30 kN 15 15	30 kN 15 15	30 kN 7,5+7,5 7,5+7,5	32 kN 16 16	32 kN 16 16	50 kN 12,5+12,5 12,5+12,5	45 kN 7,5+7,5+7,5 7,5+7,5+7,5	45 kN 7,5+7,5+7,5 7,5+7,5+7,5	25 kN
WORKING LOAD LIMIT (WLL)	5 kN 2,5 2,5	5 kN 2,5 2,5	5 kN 2,5 2,5	5 kN 1,25+1,25 1,25+1,25	8 kN 4 4	8 kN 4 4	12 kN 3+3 3+3	12 kN 2+2+2 2+2+2	12 kN 2+2+2 2+2+2	10 kN 2,5 2,5 2,5 2,5
EFFICIENCY	80%						96%			90%
ROTATING SYSTEM	SELF-LUBRIFYING BUSHING			BALL BEARING			DOUBLE BALL BEARING			
TYROLEAN	YES	NO	YES	NO						YES
	$\varnothing \leq 13$ mm		$\varnothing 8+13$ mm				$\varnothing \leq 13$ mm			

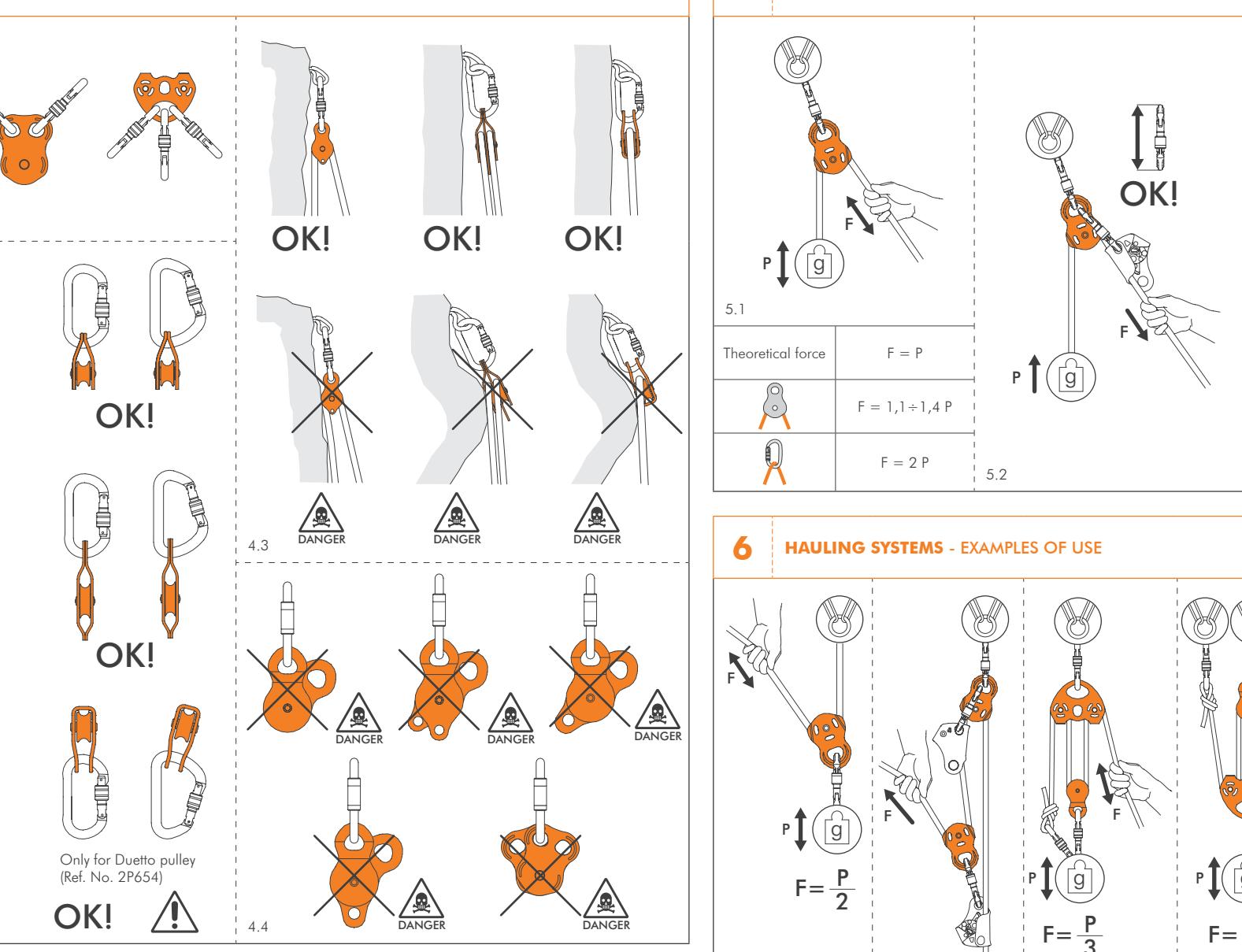
## 2 NOMENCLATURE OF PARTS



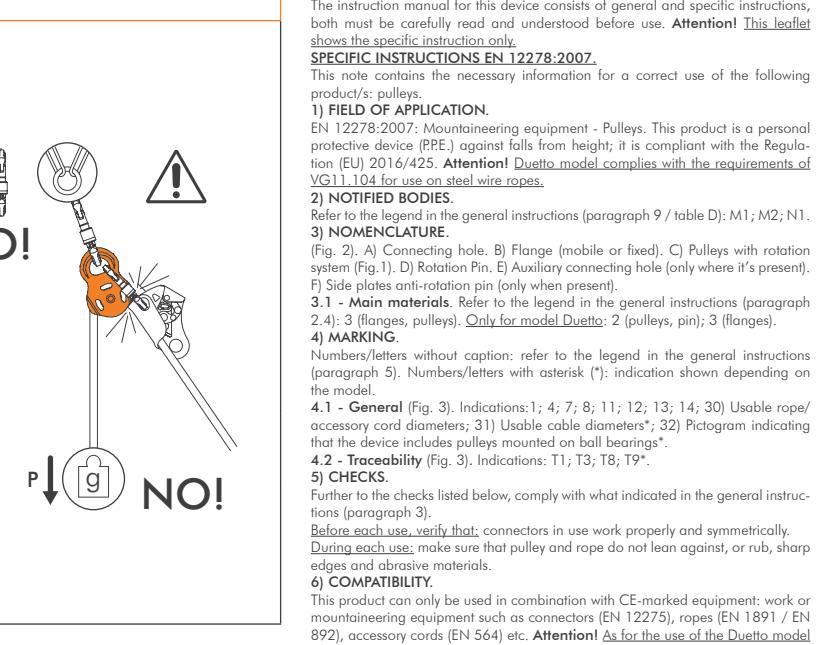
## 3 MARKING



## 4 COMPATIBILITY



## 5 INSTRUCTIONS FOR USE



## ENGLISH

The instruction manual for this device consists of general and specific instructions, both must be carefully read and understood before use. **Attention!** This leaflet shows the specific instruction only.

**SPECIFIC INSTRUCTIONS EN 12278:2007.**

This note contains the necessary information for a correct use of the following products/pulleys:

**1) FIELD OF APPLICATION.**

EN 12278:2007 Mountaineering equipment - Pulleys. This product is a personal protective device (PPE) against falls from height; it is compliant with the Regulation (EU) 2016/425. **Attention!** Duetto model complies with the requirements of VG11.104 for use on steel wire ropes.

**2) NOTIFIED BODIES.**

Refer to the legend in the general instructions (paragraph 9 / table D): M1; M2; N1.

**3) NOMENCLATURE.**

In all the controls indicated in suite, it faut respecter ce qui est indiqué dans les instructions générales (paragraph 3).

**4) CONNECTIONS.**

Each use of the connection must be correct and symmetrical.

**5) MATERIALS.**

Refer to the legend in the general instructions (paragraph 4-3): M1; M2; N1; N2.

**6) MARQUAGE.**

This product may be used only with the following markings of CE: equipments de travail ou alpinisme, que les connecteurs (EN 12275), cordes (EN 1891 / EN 892), longues (EN 564) etc. **Attention!** Pour l'utilisation du modèle Duetto conformément aux exigences du VG11.104 faire référence au paragraphe 9 et à la figure 1.

**7) COMPATIBILITÀ.**

Consultare la legenda nelle istruzioni generali (paragrafo 9 / tabella D): M1; M2; N1.

**8) NOMENCLATURA.**

A) Foro di collegamento. B) Guancia (mobile o fisso). C) Pulley con sistema di rotazione (Fig. 1). D) Perno di rotazione. E) Foro di collegamento ausiliario (solo presente). F) Perno anti-rotazione guance (solo presente).

**9) CHECKS.**

Consultare la legenda nelle istruzioni generali (paragrafo 2-4): 3 (guance, pulley).

**10) MARKING.**

Numeri/lettere senza spazi: refer to the legend in the general instructions (paragraph 5). Numeri/lettere con asterisco (\*): indication shown depending on the model.

**11) GENERAL.**

Indicazioni: 1; 4; 7; 8; 11; 12; 13; 14; 30) Usable rope/ accessory cord diameters; 31) Usable cable diameters\*, 32) Pictogram indicating that the device includes pulleys mounted on ball bearings.

**12) TRACEABILITY.**

Indications: T1; T3; T8; T9\*.

**13) CONTROLS.**

Each use, verify that connectors in use work properly and symmetrically.

During each use, make sure that pulley and rope do not lean against, or rub, sharp edges and abrasive materials.

**14) COMPATIBILITY.**

This product can only be used in combination with CE-marked equipment: work or mounting equipment such as connectors (EN 12275), ropes (EN 1891 / EN 892), accessory cords (EN 564) etc. **Attention!** As for the use of the Duetto model in compliance with the requirements of VG11.104, please refer to the paragraph 9 and to the figure 1.

**15) CABLES METALLIC.**

The compatibility of different models of cables with metal cables is shown in the table (Fig. 1). **Attention!** Ne jamais utiliser les poulies avec câbles en alliage léger sur câbles métalliques. **Attention!** Une corde ayant un diamètre trop petit peut rester coincée entre la poulie e la flosque.

**16) CONNECTORS.**

Before each use, verify that connectors in use work properly and symmetrically.

During each use, make sure that pulley and rope do not lean against, or rub, sharp edges and abrasive materials.

**17) COMPATIBILITY.**

This product is utilizable solely with devices marked CE: mountaineering work or climbing equipment such as connectors (EN 12275), ropes (EN 1891 / EN 892), cables (EN 564) etc. **Attention!** As for the use of the Duetto model in compliance with the requirements of VG11.104, please refer to the paragraph 9 and to the figure 1.

**18) CONTROLS.**

Otherwise controls indicated, respect quanto indicato nelle istruzioni generali (paragrafo 3).

**19) INSTRUCTIONS FOR USE.**

The pulleys are devices used to reduce the friction when lifting or moving a load.

**20) EFFICIENCY.**

In the basic configuration the theoretical force (F) necessary to lift a weight equal to the weight itself (Fig. 5.1). In reality the friction factor reduces the efficiency and increases the force necessary to actually lift the weight ( $F = 1,1 + 1,4 P$ ). If a connector is used instead of the pulley, the F value would be twice as much as P. **Attention!** Where otherwise specified, the indicated F values are theoretical.

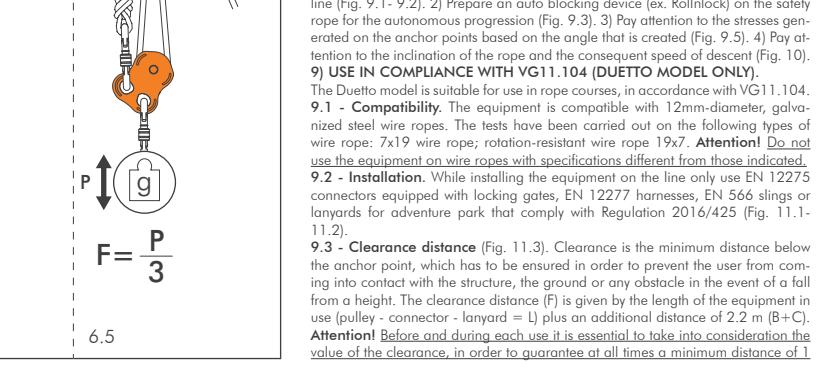
**21) TRACTION.**

Only for Duetto pulley (Ref. No. 2P654).

**22) CHECKS.**

Before each use, verify that the pulley and the cord are correctly connected and in a symmetrical way.

**23) HAULING SYSTEMS - EXAMPLES OF USE.**



m between the user's feet and the ground or any other obstacle in case of a fall. **Attention!** Pay attention to the speed of descent (Fig. 10) in order to avoid hitting any potential obstacle. **Attention!** Use care not to entangle fingers or anything else on the device; the use of gloves is recommended.

**31) MATÉRIEUX PRINCIPAUX.**

Consulter la légende dans les instructions générales (paragraphe 2-4).

**32) PICTOGRAMME.**

Le pictogramme qui indique que le dispositif inclut des poulies sur roulement à billes.

**33) SYMBOLS.**

Se reporter à la légende dans les instructions générales (paragraphe 2-4).

**34) MARQUAGE.**

Chaque flosque a sa propre légende : consulter la légende dans les instructions générales (paragraphe 5).

**35) COMPLÉMENTAIRES.**

Les instructions d'usage sont constituées d'une instruction générale et d'une ou plusieurs instructions d'usage.

**36) ATTENTION.**

Les instructions d'usage doivent être lues attentivement avant l'utilisation.

**37) INSTRUCTIONS SPÉCIFIQUEES EN 12278:2007.**

Cette note contient les informations nécessaires à l'utilisation correcte du produit/suivants: poulies.

**38) CHAMP D'APPLICATION.**

EN 12278:2007. Équipement pour alpinisme - Poules. Ce produit est un dispositif de protection individuelle (E.P.I.) contre les chutes d'hauteur ; il est conforme au Règlement (UE) 2016/425. **Attention!** Le modèle Duetto est conforme aux exigences du VG11.104 pour l'utilisation des câbles en acier.

**39) ORGANISMES NOTIFIÉS.**

Consulter la légende dans les instructions générales (paragraphe 9 / tableau D) :

M1; M2; N1; N2.

**40) CONTRÔLES.**

Avant chaque utilisation, vérifier que la poulie et la corde appuient ou frappent sur les endroits courbés ou des matériaux abrasifs.

**41) COMPATIBILITÀ.**

Consulter la légende dans les instructions générales (paragraphe 9 / tableau D).

**42) CABLES METALLIQUES.**

La compatibilité des différents modèles de câbles avec les câbles en acier est indiquée dans le tableau (Fig. 1). **Attention!** Ne jamais utiliser les poulies avec câbles en alliage léger sur câbles métalliques.

**43) POUR LA SÉCURITÉ.**

Avant chaque utilisation, vérifier que la poulie et la corde appuient ou frappent sur les endroits courbés ou des matériaux abrasifs.

**44) CONNEXION.**

Avant chaque utilisation, vérifier que les connecteurs utilisés fonctionnent correctement et l'ensemble est symétrique.

**45) CONTRÔLES.**

Avant chaque utilisation, vérifier que la poulie et la corde appuient ou frappent sur les endroits courbés ou des matériaux abrasifs.

**46) COMPATIBILITÀ.**

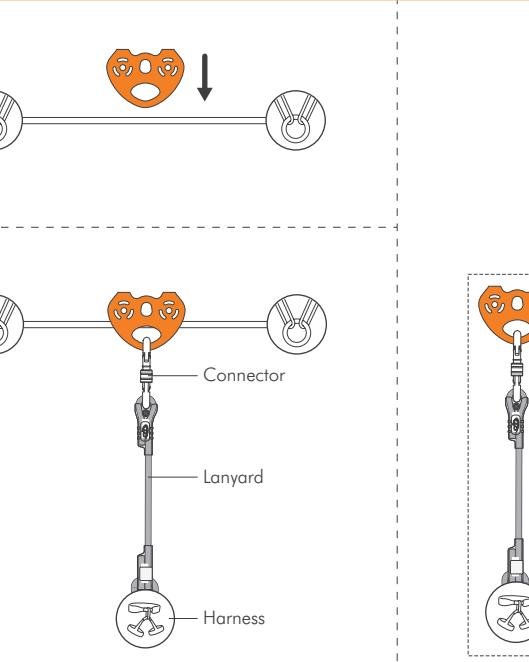
Le dispositif est utilisabile seulement avec câbles en acier zincato di diametro 12 mm. I testi sono stati realizzati con le seguenti tipologie di cavo: cavo 7x19 e cavo anti-girevole 19x7. **Attention!** Non utilizzare su cavi con diametro inferiore a 12 mm.

**47) INSTALLATION.**

Per installare il dispositivo è necessario che la corda sia separata da quella della linea di lavoro.

**48) TYROLEAN**

## 11 DUEUTO (Ref. No. 2P654) - USE IN ROPE COURSES, CONFORM TO VG11.104



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Harness

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Harness

11.60

# PULLEYS

EN Pulleys,	LV Trisees,
TR Makaralar,	LT Skriūmliai.
HU Csigák,	UA Шкії.
GR Τρούπαλις,	BG Рокли.
PL Kola pasowe,	GR Καλοτύρι.
PL ʃkivki.	CN 滑轮.
EE Plokid.	JP ブーリー。



MADE IN ITALY  
EN 12278:2007

Regulation (EU) 2016/425  
Personal Protective Equipment against falls from a height.



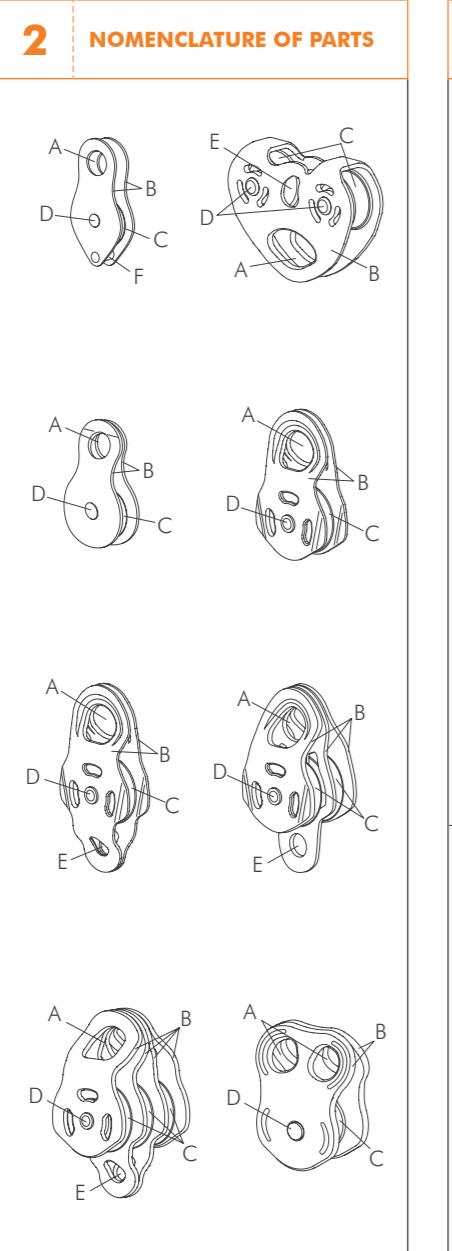
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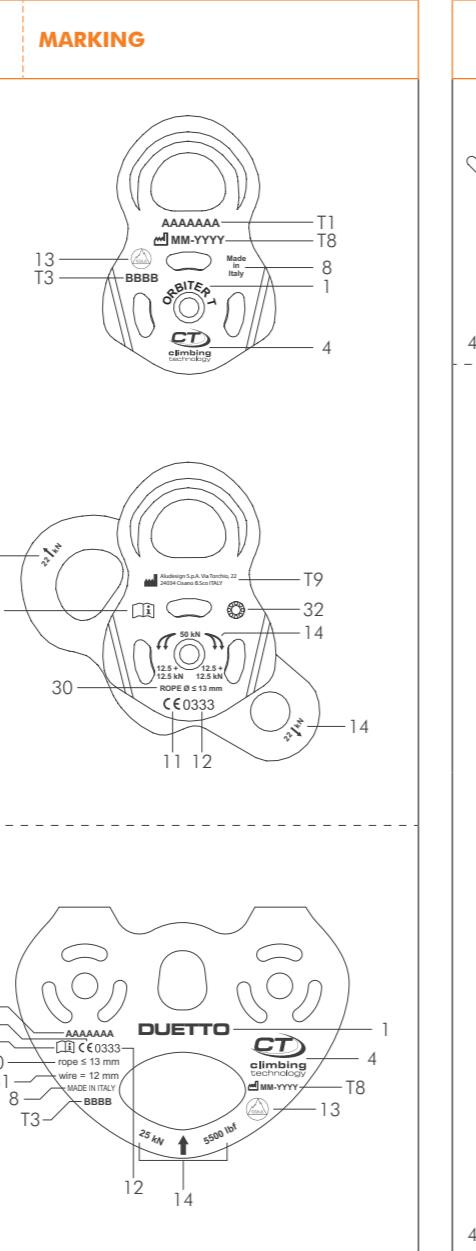
## 1 MODELS / TECHNICAL DATA

MODEL	ORBITER F	ORBITER M	ORBITER A	DUAL	ORBITER S	ORBITER D	ORBITER T	ORBITER L	ORBITER H	DUETTO
REF. NO.	2P663	2P664	2P665	2P668	2P660	2P661	2P662	2P666	2P667	2P654
g										
g	100 g	90 g	104 g	123 g	180 g	215 g	330 g	445 g	465 g	290 g
MINIMUM BREAKING LOAD (MBL)	30 kN 15 15	30 kN 15 15	30 kN 15 15	30 kN 7.5+7.5 7.5+7.5	32 kN 16 16	32 kN 16 16	50 kN 12.5+12.5 12.5+12.5	45 kN 7.5+7.5+7.5 7.5+7.5+7.5	45 kN 7.5+7.5+7.5 7.5+7.5+7.5	25 kN
WORKING LOAD LIMIT (WLL)	5 kN 2.5 2.5	5 kN 2.5 2.5	5 kN 2.5 2.5	5 kN 1.25+1.25 1.25+1.25	8 kN 4 4	8 kN 4 4	12 kN 3+3 3+3	12 kN 2+2+2 2+2+2	12 kN 2+2+2 2+2+2	10 kN 2.5 2.5
EFFICIENCY	80%				96%					90%
ROTATING SYSTEM	SELF-LUBRIFYING BUSHING				BALL BEARING			DOUBLE BALL BEARING		
										$\varnothing = 12 \text{ mm}$
TYROLEAN	YES	NO	YES	NO						$\varnothing \leq 13 \text{ mm}$
TYROLEAN	YES	NO	YES	NO						$\varnothing \leq 13 \text{ mm}$

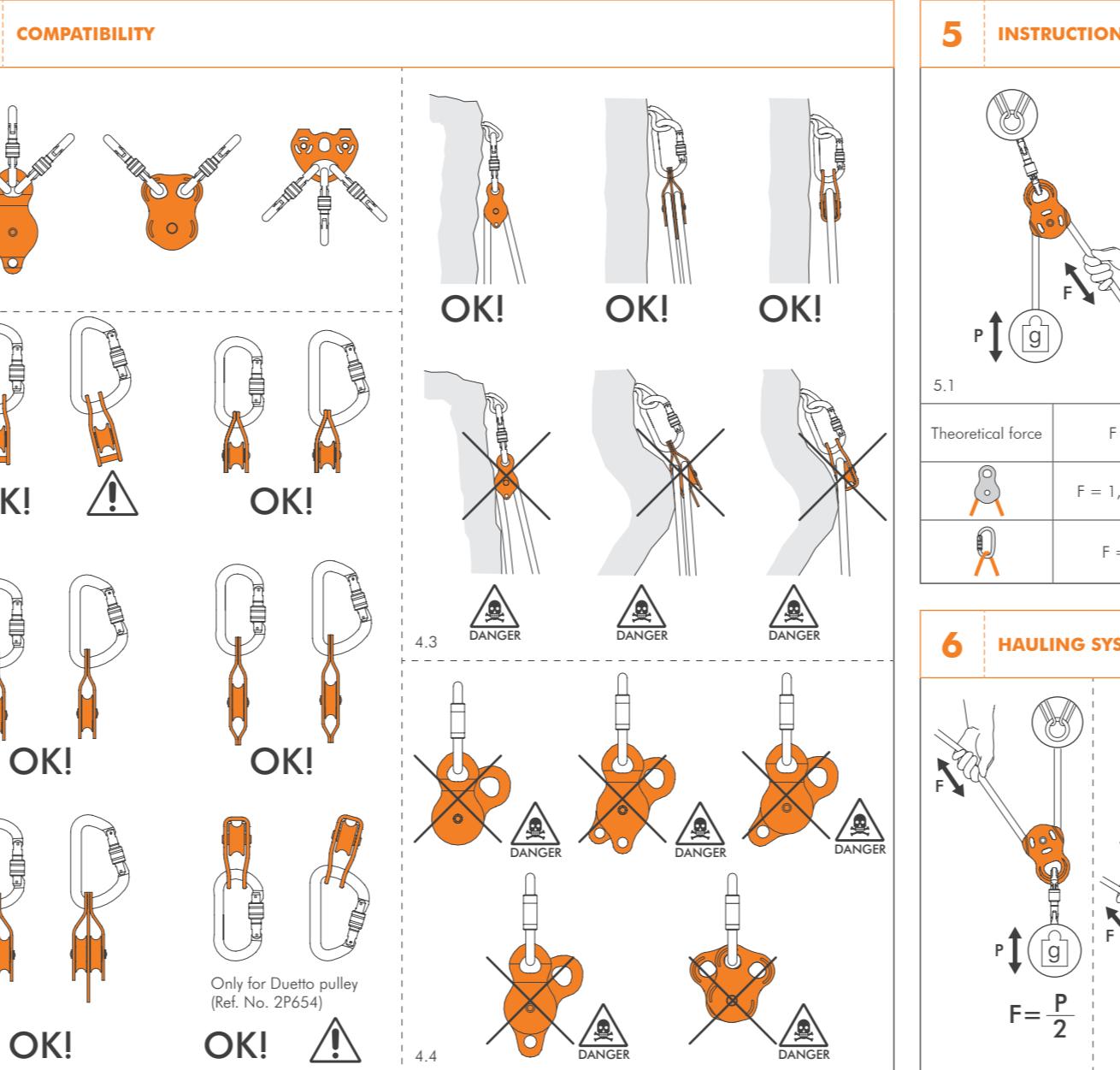
## 2 NOMENCLATURE OF PARTS



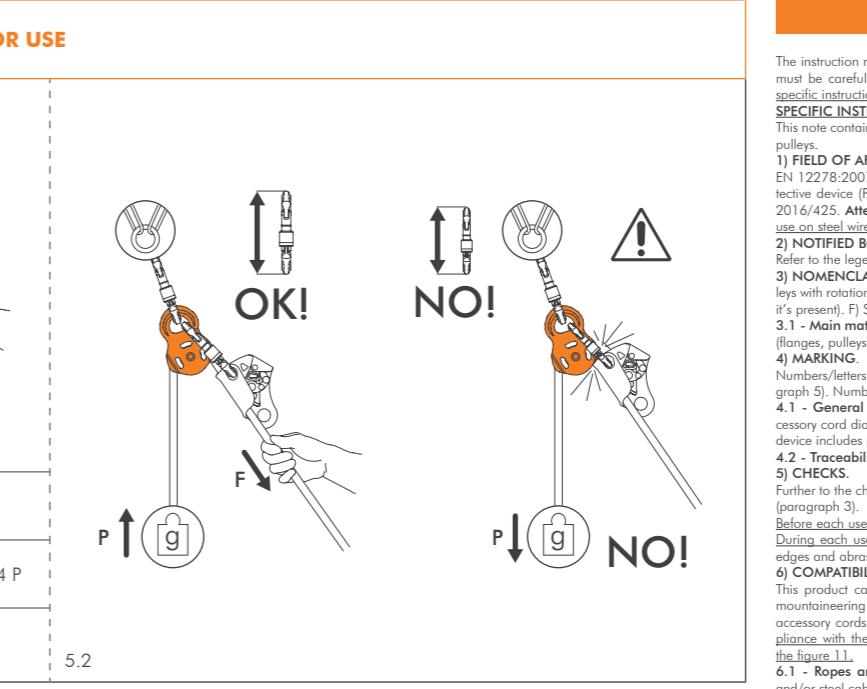
## 3 MARKING



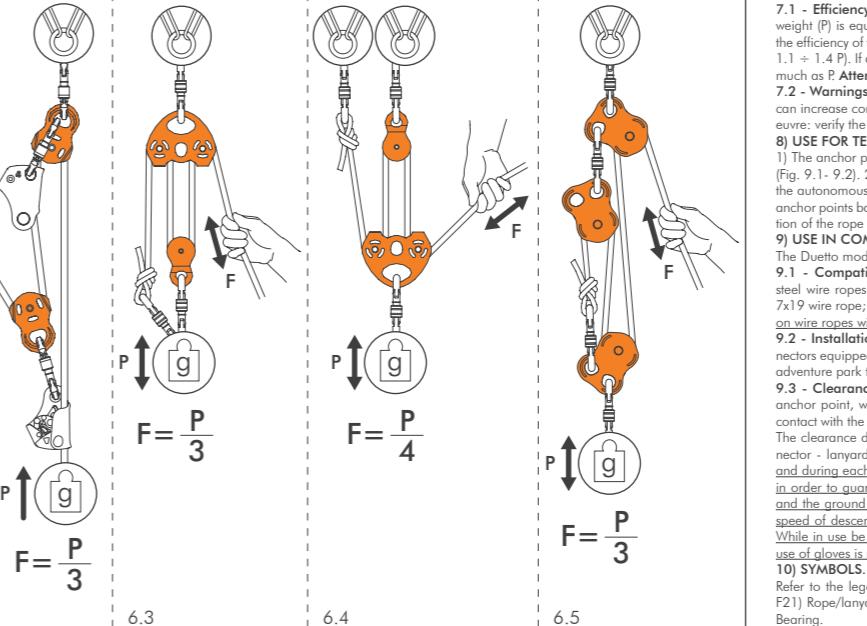
## 4 COMPATIBILITY



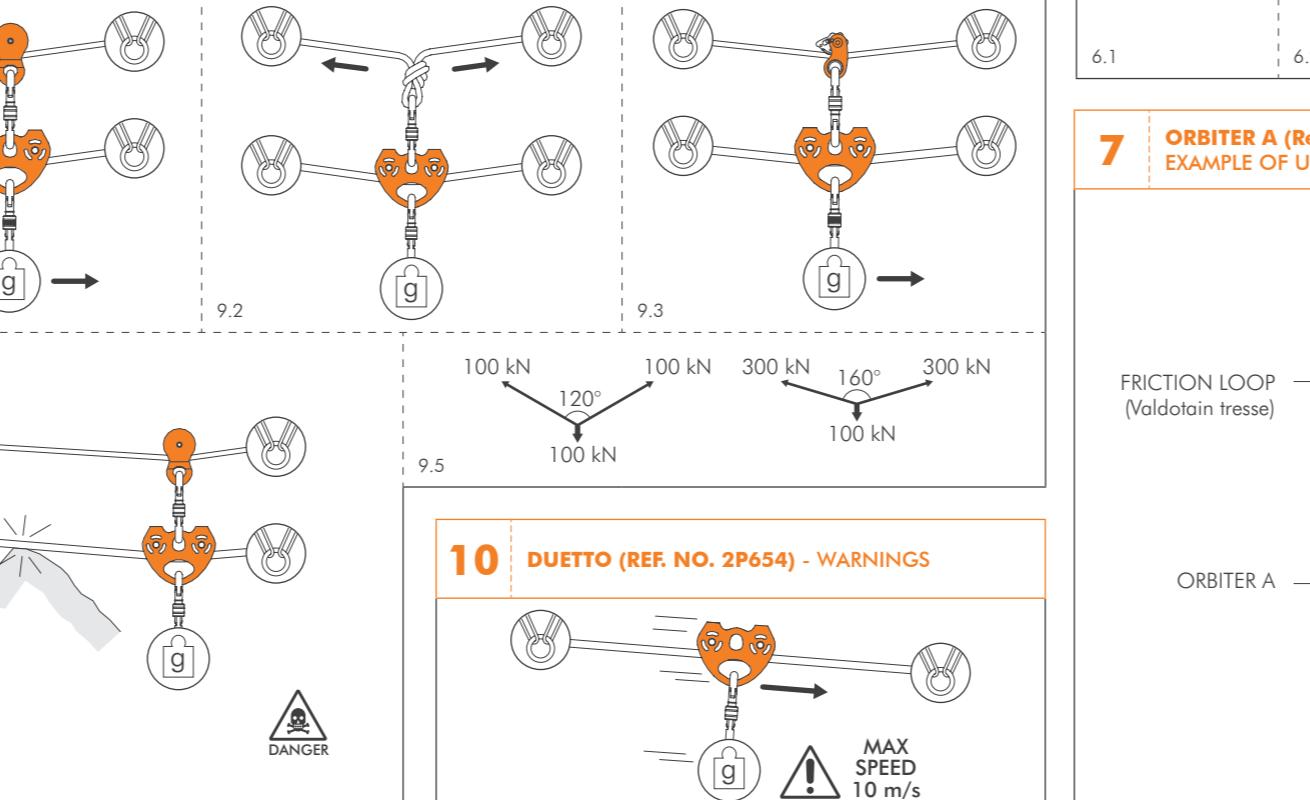
## 5 INSTRUCTIONS FOR USE



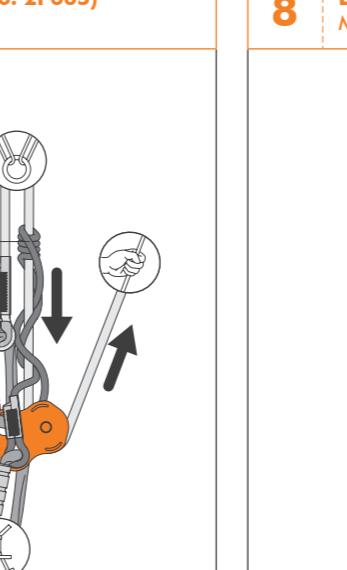
## 6 HAULING SYSTEMS - EXAMPLES OF USE



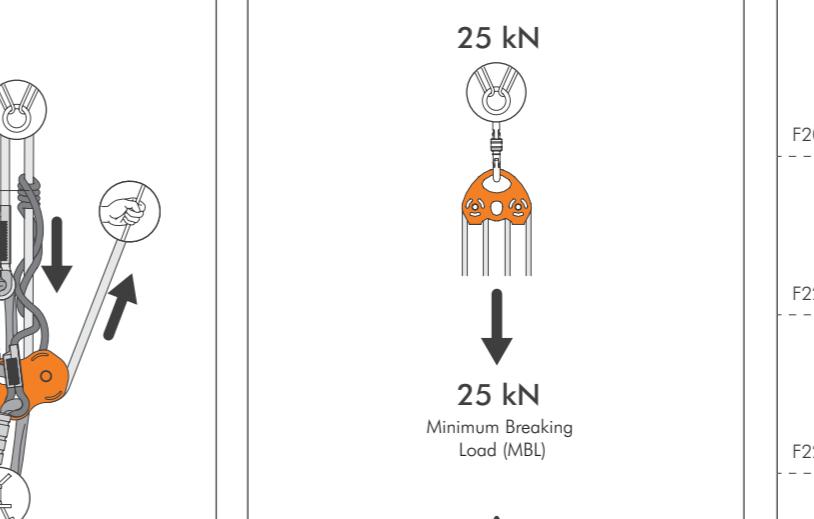
## 9 DUETTO (REF. NO. 2P654) - EXAMPLES OF USE IN TYROLEAN, USE NOT COVERED BY THE STANDARDS



## 7 ORBITER A (Ref. No. 2P665) EXAMPLE OF USE



## 8 DUETTO (Ref. No. 2P654) MINIMUM BREAKING LOAD



## 10 DUETTO (REF. NO. 2P654) - WARNINGS



## ENGLISH

The instruction manual for this device consists of general and specific instructions, both must be carefully read and understood before use. **Attention!** This leaflet shows the specific instruction only.

**OZEL TALIMATLAR EN 12278:2007.**

This note contains the necessary information for a correct use of the following product/s: pulleys.

**1) FIELD OF APPLICATION.**

EN 12278:2007: Mountaineering equipment - Pulleys. This product is a personal protection equipment (PPE) against falls from height; it is compliant with the Regulation (EU) 2016/425. **Duetto** Duetto model complies with the requirements of VG11.104 for use on steel wire ropes.

**2) NOTIFIED BODIES.**

Refer to the legend in the general instructions (paragraph 9 / table D): M1; M2; N1.

**3) NOMENCLATURE (Fig. 2).** A) Connecting hole. B) Flange (mobile or fixed). C) Pulley with rotation system (Fig. 1). D) Rotation Pin. E) Auxiliary connecting hole (only where it's present). F) Side plates anti-rotation pin (only when present).

**3.1 - Main materials.** Refer to the legend in the general instructions (paragraph 2.4): 3 (flanges, pulleys). Only for model **Duetto** 2 (pulleys, pin); 3 (flanges).

**4) MARKINGS.**

Number letters without caption, refer to the legend in the general instructions (paragraph 5). Numbers/letters with asterisk (\*) indication shown depending on the model.

**4.1 - General (Fig. 3).** Indications: 1; 4; 7; 8; 11; 12; 13; 14; 30) Usable rope/cord diameters; 31) Usable cable diameters; 32) Pictogram indicating that the device includes pulleys mounted on ball bearings.

**4.2 - Traceability (Fig. 3).** Indications: T1; T3; T8; T9\*.

**5) CHECKS.**

Further to the checks listed below, comply with what indicated in the general instructions (paragraph 3).

**Before each use:** verify that connectors in use work properly and symmetrically. During each use: make sure that pulley and rope do not lean against or, sharp edges and abrasive materials.

**6) COMPATIBILITY.**

This product can only be used in combination with CE-marked equipment; work or mountaineering equipment such as connectors (EN 12275), ropes (EN 1891 / EN 892), accessory cords (EN 546) etc. **Attention!** As for the use of the **Duetto** model in compliance with the requirements of VG11.104, please refer to the paragraph 9 and to the figure 11.

**6.1 - Ropes and steel cables.** The compatibility of the different models with ropes and steel cables is shown in the table (Fig. 1). **Attention!** Never use the pulleys with sheet in load cables on metal cables. **Attention!** A rope with a too small diameter may break between the pulley and the side plate.

**6.2 - Connectors.** To connect the device to the anchor point, use only connectors equipped with a locking gate. **Attention!** Always insert the connector in the connecting holes of all the flanges (Fig. 4).

**7) KUMLUNUM TAUMATLARI.**

Kuvalalar, bir koltukta kalmak için saklama sistemleri.

**7.1 - Verimli konfigürasyonda, bir örük (P) kaldırma için gerekli olan teşkilat kuvveti (F), ağırlığın kendisinden (Şekil 5). Ağırlıkla doğrudan eşitlenmesi azaltır ve koltumuzu gevşetir. Her kullanımda önce koltumuzu gevşetmek gerekmektedir. Duetto 1.1.1.4.1.4. P. Kuvaları, bir koltukta kalmak için (Şekil 6). Kuvalı kuvalar, bir koltukta kalmak için (Şekil 7). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 8). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 9). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 10). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 11). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 12). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 13). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 14). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 15). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 16). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 17). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 18). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 19). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 20). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 21). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 22). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 23). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 24). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 25). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 26). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 27). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 28). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 29). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 30). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 31). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 32). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 33). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 34). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 35). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 36). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 37). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 38). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 39). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 40). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 41). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 42). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 43). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 44). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 45). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 46). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 47). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 48). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 49). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 50). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 51). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 52). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 53). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 54). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 55). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 56). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 57). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 58). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 59). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 60). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 61). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 62). Duetto 1.1.1.4.1.4. P. Kuvalı kuvalar, bir koltukta kalmak için (Şekil 63). Duetto 1.1.1.4.1**

