

**BENZI** 



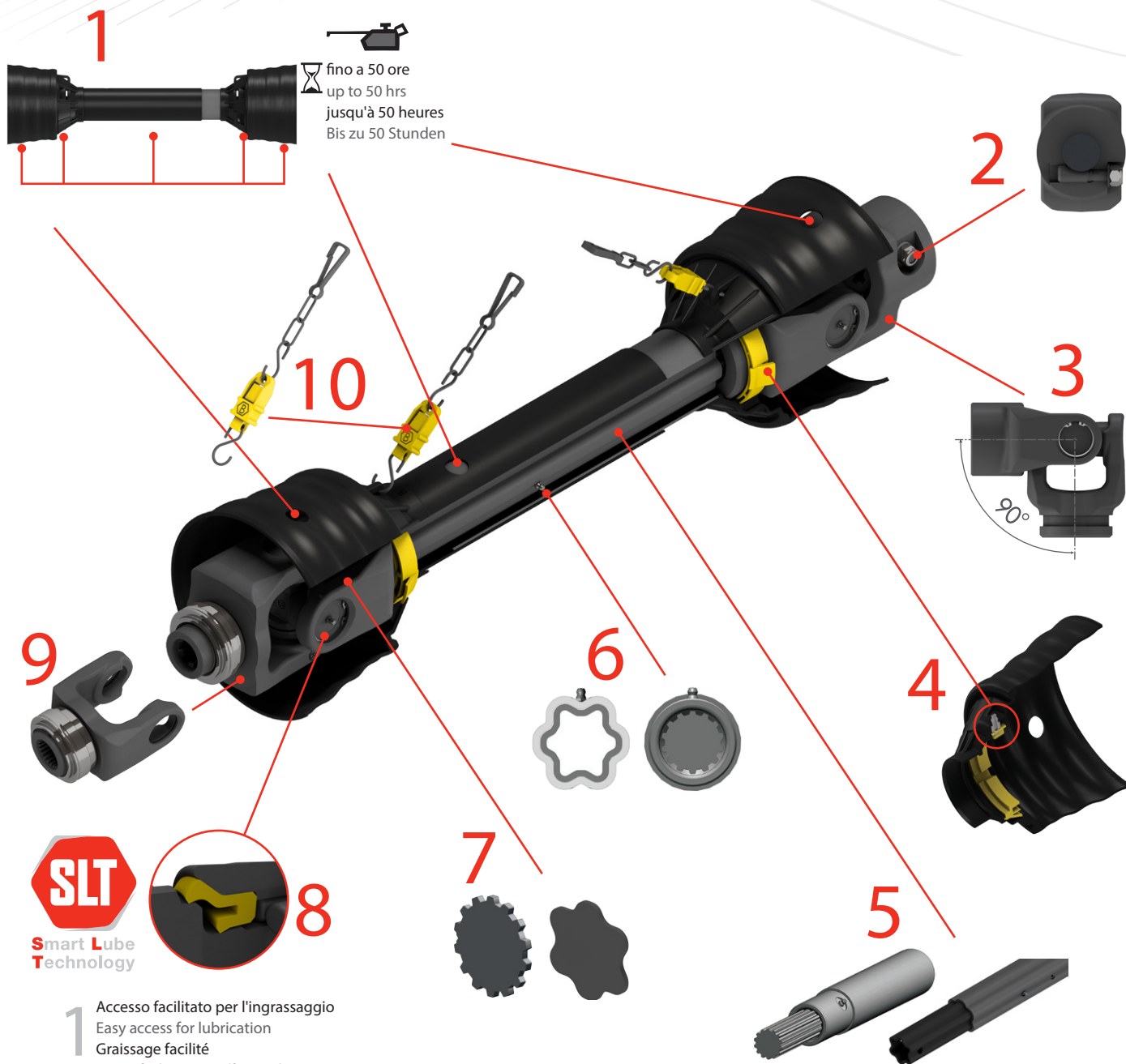
**Alberi cardanici  
PTO drive shafts  
Transmissions a cardans  
Gelenkwellen**



**evolution**  
HIGH PERFORMANCE SERIES



**Alberi cardanici Serie V**  
**PTO drive shafts Series V**  
**Transmissions Série V**  
**Gelenkwellen Serie V**



**1** Accesso facilitato per l'ingrassaggio  
Easy access for lubrication  
Graissage facilité  
Vereinfachter Zugriff zur Schmierung

**2** Sistema di fissaggio anti-vibrazioni  
Anti-vibration fitting system  
Système de fixation anti-vibrations  
Vibrationsfreies Befestigungssystem

**3** Angolazione di 90° a riposo  
90° angulation not in operation  
Angle 90° au repos  
Im Ruhezustand 90° Winkel

**4** Intervalli di lubrificazione fino a 50 ore  
Extended lubrication up to 50 hrs  
Intervalles de lubrification jusqu'à 50 heures  
Schmierungsintervalle bis 50 Stunden

**5** Profili telescopici trattati  
Hardened telescopic profiles  
Profilis couissants traités  
Teleskop-Profil

**6** Ingrassaggio dei profili telescopici  
Lubrication for tubing profiles  
Graissage profils couissants  
Schmierung der Teleskopprofile

**7** Tappi per profili telescopici  
Telescoping tube closing tops  
Opérucles anti-poussière aux extrémités des profils  
Stöpsel für Teleskopprofile

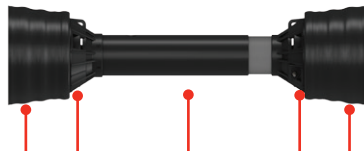
**8** Intervalli di lubrificazione fino a 50 ore  
Extended lubrication up to 50 hrs  
Intervalles de lubrification jusqu'à 50 heures  
Schmierungsintervalle bis 50 Stunden

**9** Collare a sgancio rapido in acciaio  
Steel Collar QD yoke  
Verrouillage rapide en acier  
Schnelltrennstahlbund

**10** Sistema di sgancio programmato  
Pre-set disengagement system  
Système de décrochage programmé  
System zum programmierten Tennen



## Standard



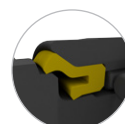
Accesso facilitato per l'ingrassaggio  
Easy access for lubrication  
Graissage facilité  
Vereinfachter Zugriff zur Schmierung



Sistema di sgancio programmato  
Pre-set disengagement system  
Système de décrochage programmé  
System zum programmierten Tennen



Collare a sgancio rapido in acciaio  
Steel Collar QD yoke  
Verrouillage rapide en acier  
Schnelltrennstahlbund



Intervalli di lubrificazione fino a 50 ore  
Extended lubrication up to 50 hrs  
Intervalles de lubrification jusqu'à 50 heures  
Schmierungsintervalle bis 50 Stunden



Angolazione di 90° a riposo  
90° angulation not in operation  
Angle 90° au repos  
Im Ruhezustand 90° Winkel



Tappi per profili telescopici  
Telescoping tube closing tops  
Opércules anti-poussière aux extrémités des profils coulissants  
Stöpsel für Teleskopprofile



Profili telescopici trattati  
Hardened telescoping profiles  
Profils coulissants traités  
Teleskop-Profil

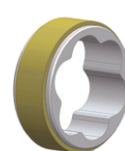
## Accessori - Optionals - Accessoires - Zubehör



Sistema di fissaggio anti-vibrazioni  
Anti-vibration fitting system  
Système de fixation anti-vibrations  
Vibrationsfreies Befestigungssystem

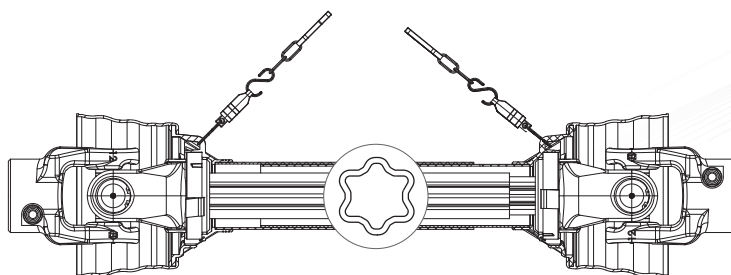


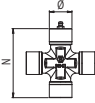
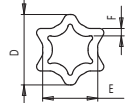
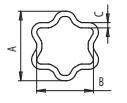
Ingrassaggio dei profili telescopici  
Lubrication for tubing profiles  
Graissage profils coulissants  
Schmierung der Teleskopprofile



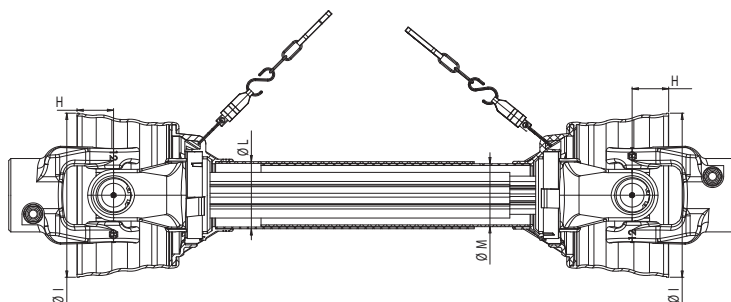
Bussola anti-vibrazioni per protezione  
Anti-vibrating sleeve for safety guard tubes  
Bague anti-vibrations pour les tubes protecteur  
Vibrationsfreier Kompass zum Schutz

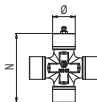
# **Alberi cardanici Serie V** **PTO drive shafts Series V** **Transmissions Série V** **Gelenkwellen Serie V**



| Albero tipo<br>Shaft size<br>Arbre type<br>Gelenk.Type | 540 *                    |       |         | 1.000 *                  |       |         |  |       |  |    |     |      |  |     |  | Mp (Nm) |
|--------------------------------------------------------|--------------------------|-------|---------|--------------------------|-------|---------|-----------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------|----|-----|------|-------------------------------------------------------------------------------------|-----|--|---------|
|                                                        | giri/min - rpm - U / min |       |         | giri/min - rpm - U / min |       |         |                                                                                   |       |                                                                                    |    |     |      |                                                                                     |     |  |         |
|                                                        | kW                       | CV-HP | Mn (Nm) | kW                       | CV-HP | Mn (Nm) | Ø                                                                                 | N     | D                                                                                  | E  | F   | A    | B                                                                                   | C   |  |         |
| <b>V 06</b>                                            | 44                       | 60    | 780     | 68                       | 93    | 653     | 32                                                                                | 76    | 51                                                                                 | 37 | -   | 61   | 47                                                                                  | 4,5 |  | 3.000   |
| <b>V 07</b>                                            | 66                       | 90    | 1.170   | 102                      | 139   | 980     | 36                                                                                | 89    | 51                                                                                 | 37 | -   | 61   | 47                                                                                  | 4,5 |  | 4.000   |
| <b>V 08</b>                                            | 77                       | 105   | 1.365   | 119                      | 162   | 1142    | 35                                                                                | 106,5 | 51                                                                                 | 37 | -   | 61   | 47                                                                                  | 4,5 |  | 4.000   |
| <b>V 10</b>                                            | 92                       | 125   | 1.625   | 142                      | 193   | 1.360   | 42                                                                                | 104   | 61                                                                                 | 47 | 4,5 | 71,5 | 57,5                                                                                | 5   |  | 6.000   |
| <b>V 12</b>                                            | 121                      | 165   | 2.145   | 188                      | 255   | 1.795   | 50                                                                                | 118   | 61                                                                                 | 47 | 4,5 | 71,5 | 57,5                                                                                | 5   |  | 6.000   |

\* Capacità dinamica - Dynamic Capacity - Capacité dynamique - Dynamische Kapazität



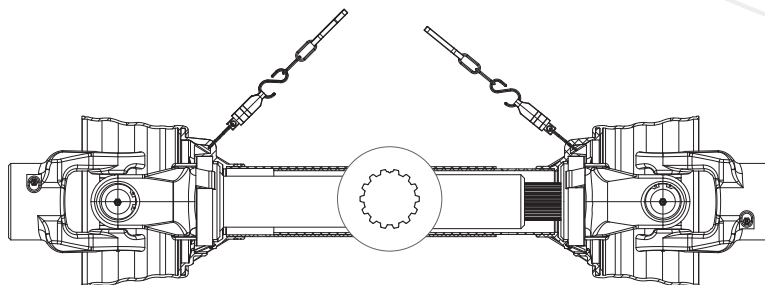
| Albero tipo<br>Shaft size<br>Arbre type<br>Gelenk.Type |  |       |  |     |      |      |
|--------------------------------------------------------|-------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------|-----|------|------|
|                                                        |                                                                                     |       |                                                                                      |     |      |      |
|                                                        | Ø                                                                                   | N     | H                                                                                    | I   | L    | M    |
| <b>V 06</b>                                            | 32                                                                                  | 76    | 45                                                                                   | 184 | 81,5 | 75,5 |
| <b>V 07</b>                                            | 36                                                                                  | 89    | 26                                                                                   | 184 | 81,5 | 75,5 |
| <b>V 08</b>                                            | 35                                                                                  | 106,5 | 35                                                                                   | 205 | 96   | 90   |
| <b>V 10</b>                                            | 42                                                                                  | 104   | 43                                                                                   | 235 | 96   | 90   |
| <b>V 12</b>                                            | 50                                                                                  | 118   | 33                                                                                   | 235 | 96   | 90   |

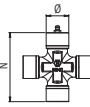
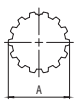
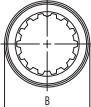
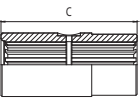
**Mn** = E' la coppia nominale e specifica la coppia media in funzione della durata di vita e dell'angolazione.  
 Is the nominal torque and specifies the average torque in respect of the life and bend angles.  
 Est le couple nominal et donne le couple moyen en fonction de la durée de vie et de l'angularité.  
 Ist das Nominalmoment und gibt das mittlere Moment in Abhängigkeit der Lebensdauer und der Beugungswinkel an.

**Mp** = Specifica il limite statico del carico.  
 Specifies the static load limit.  
 Donne la limite statique de charge.  
 Gibt die Grenze der statischen Belastbarkeit an.

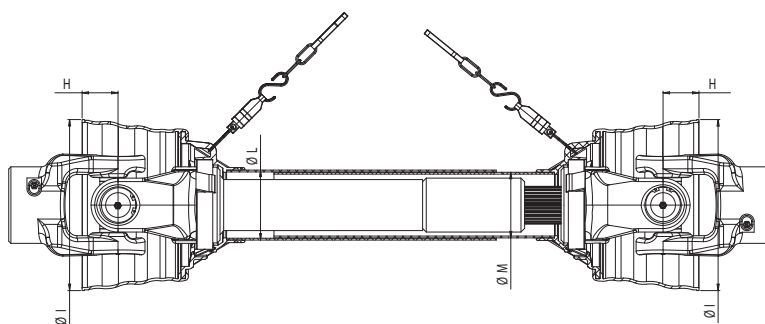
\* Base di calcolo - angolo del giunto 5°, durata vita 1000 h  
 Basis of calculation - joint angle 5°, life 1000 h  
 Base de calcul - angle du joint 5°, durée de vie 1000 h  
 Berechnungsbasis - Beugungswinkel 5°, Lebensdauer 1000 h

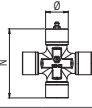
# **Alberi cardanici Serie V** **PTO drive shafts Series V** **Transmissions Série V** **Gelenkwellen Serie V**



| Albero tipo<br>Shaft size<br>Arbre type<br>Gelenk.Type | 540 * |       |         | 1.000 * |       |         |  |       | Profili     |  |  |  | Mp (Nm) |
|--------------------------------------------------------|-------|-------|---------|---------|-------|---------|-----------------------------------------------------------------------------------|-------|-------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------|
|                                                        | kW    | CV-HP | Mn (Nm) | kW      | CV-HP | Mn (Nm) | Ø                                                                                 | N     |             | A                                                                                  | B                                                                                   | C                                                                                   |         |
| V 07                                                   | 66    | 90    | 1.170   | 102     | 139   | 980     | 36                                                                                | 89    | 40 x 35 Z14 | 40                                                                                 | 61                                                                                  | 120                                                                                 | 4.000   |
| V 08                                                   | 77    | 105   | 1.365   | 119     | 162   | 1.142   | 35                                                                                | 106,5 | 40 x35 Z14  | 40                                                                                 | 61                                                                                  | 120                                                                                 | 4.000   |
| V 10                                                   | 92    | 125   | 1.625   | 142     | 193   | 1.360   | 42                                                                                | 104   | 52 x 47 Z25 | 52                                                                                 | 74                                                                                  | 170                                                                                 | 6.000   |
| V 12                                                   | 121   | 165   | 2.145   | 122     | 255   | 1.795   | 50                                                                                | 118   | 52 x 47 Z25 | 52                                                                                 | 74                                                                                  | 170                                                                                 | 6.000   |
| V 14                                                   | 181   | 246   | 3.200   | 272     | 370   | 2.600   | 53                                                                                | 135   | 60 x 55 Z28 | 60                                                                                 | 80                                                                                  | 160                                                                                 | 11.000  |

\* Capacità dinamica - Dynamic Capacity - Capacité dynamique - Dynamische Kapazität



| Albero tipo<br>Shaft size<br>Arbre type<br>Gelenk.Type |  |       |  |     |      |      |
|--------------------------------------------------------|-------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------|-----|------|------|
|                                                        | Ø                                                                                   | N     | H                                                                                    | I   | L    | M    |
| <b>V 07</b>                                            | 36                                                                                  | 89    | 26                                                                                   | 184 | 81,5 | 75,5 |
| <b>V 08</b>                                            | 35                                                                                  | 106,5 | 35                                                                                   | 205 | 96   | 90   |
| <b>V 10</b>                                            | 42                                                                                  | 104   | 43                                                                                   | 235 | 96   | 90   |
| <b>V 12</b>                                            | 50                                                                                  | 118   | 33                                                                                   | 235 | 96   | 90   |
| <b>V 14</b>                                            | 53                                                                                  | 135   | 41                                                                                   | 235 | 96   | 90   |

**Mn** = E' la coppia nominale e specifica la coppia media in funzione della durata di vita e dell'angolazione.  
 Is the nominal torque and specifies the average torque in respect of the life and bend angles.  
 Est le couple nominal et donne le couple moyen en fonction de la durée de vie et de l'angularité.  
 Ist das Nominalemoment und gibt das mittlere Moment in Abhängigkeit der Lebensdauer und der Beugungswinkel an.

**Mp** = Specifica il limite statico del carico.

Specifies the static load limit.

Donne la limite statique de charge.

Gibt die Grenze der statischen Belastbarkeit an.

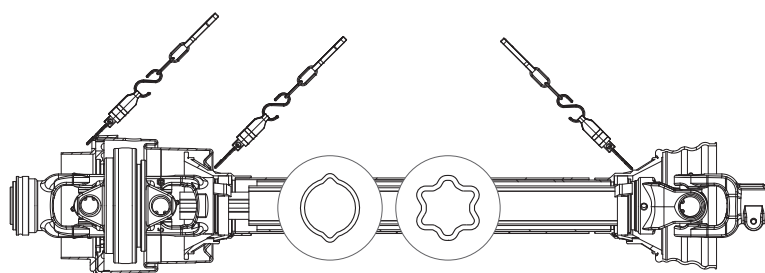
\* Base di calcolo - angolo del giunto 5°, durata vita 1000 h

Basis of calculation - joint angle 5°, life 1000 h

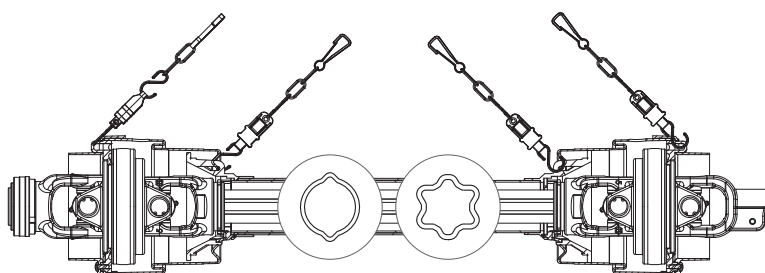
Base de calcul - angle du joint 5°, durée de vie 1000 h

Berechnungsbasis - Beugungswinkel 5°, Lebensdauer 1000 h

**Alberi cardanici omocinetici grandangolari Serie CV**  
**Wide angle CV PTO drive shafts Series CV**  
**Grand angle, homocinétiques Série CV**  
**Weitwinkel-Gleichlauf-Gelenkwellen Serie CV**



**1**  
 giunto GA  
 CV joint  
 joint GA  
 Weitwinkel



**2**  
 giunti GA  
 CV joints  
 joints GA  
 Weitwinkel

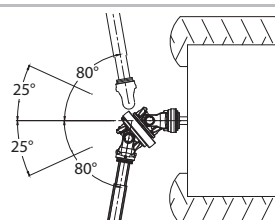
| Albero tipo<br>Shaft size<br>Arbre type<br>Gelenk.Type | 540 *<br>giri/min<br>rpm<br>U / min |       |         | 1.000 *<br>giri/min<br>rpm<br>U / min |       |         |      |      |      |     |      |    |     |    |      |   | Mp (Nm) |
|--------------------------------------------------------|-------------------------------------|-------|---------|---------------------------------------|-------|---------|------|------|------|-----|------|----|-----|----|------|---|---------|
|                                                        | kW                                  | CV-HP | Mn (Nm) | kW                                    | CV-HP | Mn (Nm) | A    | B    | C    | D   | A    | B  | S   | A  | B    | S |         |
| <b>CV 2</b>                                            | 20                                  | 27    | 355     | 31                                    | 42    | 295     | 23,8 | 61,3 | 22   | 80  | 34,5 | 40 | 4   | 41 | 48   | 3 | 1.550   |
| <b>CV 4</b>                                            | 28                                  | 38    | 500     | 44                                    | 60    | 415     | 27   | 74,6 | 23,8 | 95  | 34,5 | 40 | 4   | 41 | 48   | 3 | 1.550   |
|                                                        | 28                                  | 38    | 500     | 44                                    | 60    | 415     | 27   | 74,6 | 23,8 | 95  | 39,5 | 49 | 4,5 | 48 | 57,5 | 4 | 2.300   |
| <b>CV 6</b>                                            | 44                                  | 60    | 780     | 68                                    | 93    | 653     | 32   | 76   | 27   | 98  | 39,5 | 49 | 4,5 | 48 | 57,5 | 4 | 2.300   |
| <b>CV 7</b>                                            | 66                                  | 90    | 1.175   | 102                                   | 139   | 975     | 36   | 89   | 32   | 110 | 39,5 | 49 | 4,5 | 48 | 57,5 | 4 | 2.300   |

| Albero tipo<br>Shaft size<br>Arbre type<br>Gelenk.Type | 540 *<br>giri/min<br>rpm<br>U / min |       |         | 1.000 *<br>giri/min<br>rpm<br>U / min |       |         |    |     |    |     |    |    |     |    |      |     | Mp (Nm) |
|--------------------------------------------------------|-------------------------------------|-------|---------|---------------------------------------|-------|---------|----|-----|----|-----|----|----|-----|----|------|-----|---------|
|                                                        | kW                                  | CV-HP | Mn (Nm) | kW                                    | CV-HP | Mn (Nm) | A  | B   | C  | D   | A  | B  | S   | A  | B    | S   |         |
| <b>CV 6</b>                                            | 44                                  | 60    | 780     | 68                                    | 93    | 653     | 32 | 76  | 27 | 98  | 51 | 37 | -   | 61 | 47   | 4,5 | 3.000   |
| <b>CV 7</b>                                            | 66                                  | 90    | 1.175   | 102                                   | 139   | 975     | 36 | 89  | 32 | 110 | 51 | 37 | -   | 61 | 47   | 4,5 | 4.000   |
| <b>CV 8</b>                                            | 77                                  | 105   | 1.361   | 113                                   | 154   | 1.079   | 36 | 89  | 32 | 110 | 51 | 37 | -   | 61 | 47   | 4,5 | 4.000   |
| <b>CVH</b>                                             | 92                                  | 125   | 1.625   | 142                                   | 193   | 1.360   | 42 | 104 | 42 | 124 | 61 | 47 | 4,5 | 71 | 57,5 | 5   | 6.000   |

\* Capacità dinamica - Dynamic Capacity - Capacité dynamique - Dynamische Kapazität

Tubo rilsanizzato - Rilsan coated tube - Tube rilsanisé - Rilsan-beschichtetes Rohr



In lavoro continuo - Continuous operation  
 Travail permanent - Dauerbetrieb **max 25°**

Per brevi periodi di lavoro - Short duration  
 Travail de courte durée - Kurzzeitbetrieb **max 80°**

Non in rotazione - Stationary  
 Au repos - Stillstand **max 80°**

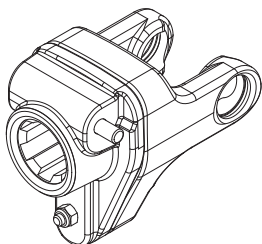


Angoli massimi di lavoro  
 Maximum joint angles  
 Angles maximums  
 Maximale Gelenkwinkelungen

**Dispositivi di sicurezza**  
**Safety devices**  
**Dispositifs de sécurité**  
**Sicherheitselemente**

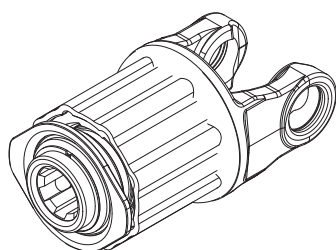


**LIMITATORE A BULLONE DI TRANCIO - SHEAR BOLT CLUTCH - LIMITEUR BOULON DE RUPTURE - SCHERBOLZENKUPPLUNG**



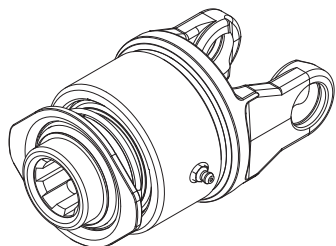
| Tipo - Size - Type - Typ | Albero tipo - Shaft type - Arbre type - Gelenk. Typ |     |     |     |     |     |
|--------------------------|-----------------------------------------------------|-----|-----|-----|-----|-----|
| BTV                      | V06                                                 | V07 | V08 | V10 | V12 | V14 |
| Nm                       | From 1.400 up to 4.500                              |     |     |     |     |     |

**LIMITATORE A NOTTOLINI - RADIAL PIN CLUTCH - LIMITEUR A CAMES - STERNRATSCHKE**



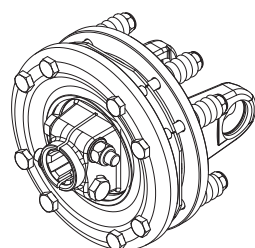
| Tipo - Size - Type - Typ | Albero tipo - Shaft type - Arbre type - Gelenk. Typ |     |  |  |     |  |
|--------------------------|-----------------------------------------------------|-----|--|--|-----|--|
| N3                       | Nm                                                  | V06 |  |  | V07 |  |
|                          | 900                                                 |     |  |  |     |  |
| N4                       | Nm                                                  | V06 |  |  | V07 |  |
|                          | 1.200                                               |     |  |  |     |  |
| N5                       | Nm                                                  | V06 |  |  | V07 |  |
|                          | 1.500                                               |     |  |  |     |  |

**RUOTA LIBERA - OVERRUNNING CLUTCH - ROUE LIBRE - FREILAUFKUPPLUNG**



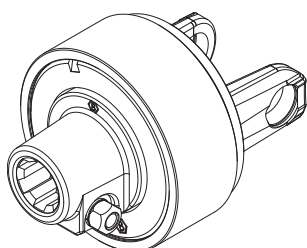
| Tipo - Size - Type - Typ | Albero tipo - Shaft type - Arbre type - Gelenk. Typ |     |     |     |     |     |
|--------------------------|-----------------------------------------------------|-----|-----|-----|-----|-----|
| R2V                      | V06                                                 | V07 | V08 | V10 | V12 | V14 |
| Nm                       | From 3.000 up to 3.800                              |     |     |     |     |     |

**FRIZIONE A DISCHI - FRICTION CLUTCH - FRICTION A DISQUES - REIBKUPPLUNG**



| Tipo - Size - Type - Typ | Albero tipo - Shaft type - Arbre type - Gelenk. Typ |     |     |     |     |                                  |
|--------------------------|-----------------------------------------------------|-----|-----|-----|-----|----------------------------------|
| F1                       | Nm                                                  | V06 |     |     |     | 2<br>dischi<br>plates<br>disques |
|                          | 900                                                 |     |     |     |     |                                  |
| F2                       | Nm                                                  | V06 | V07 | V08 |     |                                  |
|                          | 1.200                                               |     |     |     |     |                                  |
| F3                       | Nm                                                  | V06 | V07 | V08 |     | 4<br>dischi<br>plates<br>disques |
|                          | 1.500                                               |     |     |     |     |                                  |
| F4                       | Nm                                                  | V06 | V07 | V08 | V10 | V12                              |
|                          | 2.000                                               |     |     |     |     |                                  |

**LIMITATORE DI COPPIA A CAMME - CAM TYPE CUT-OUT-CLUTCH - LIMITEUR DEBRAYABLE A CAMES - NOCKENSCHALT KUPPLUNG**



| Tipo - Size - Type - Typ | Albero tipo - Shaft type - Arbre type - Gelenk. Typ |     |     |     |     |     |
|--------------------------|-----------------------------------------------------|-----|-----|-----|-----|-----|
| LAF                      | V06                                                 | V07 | V08 | V10 | V12 | V14 |
| Nm                       | From 1.300 up to 4.500                              |     |     |     |     |     |

**Altre gamme di prodotti**  
**Other product ranges**  
**D'autres gammes de produits**  
**Produktkatalog**

**BENZI** 



**Alberi cardanici**  
PTO drive shafts  
**Transmissions a cardans**  
Gelenkwellen



**ENERGY**

**BENZI** 



**Scatole Ingranaggi**  
Gearboxes  
**Boltiers**  
Getriebe



**Reduco**



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