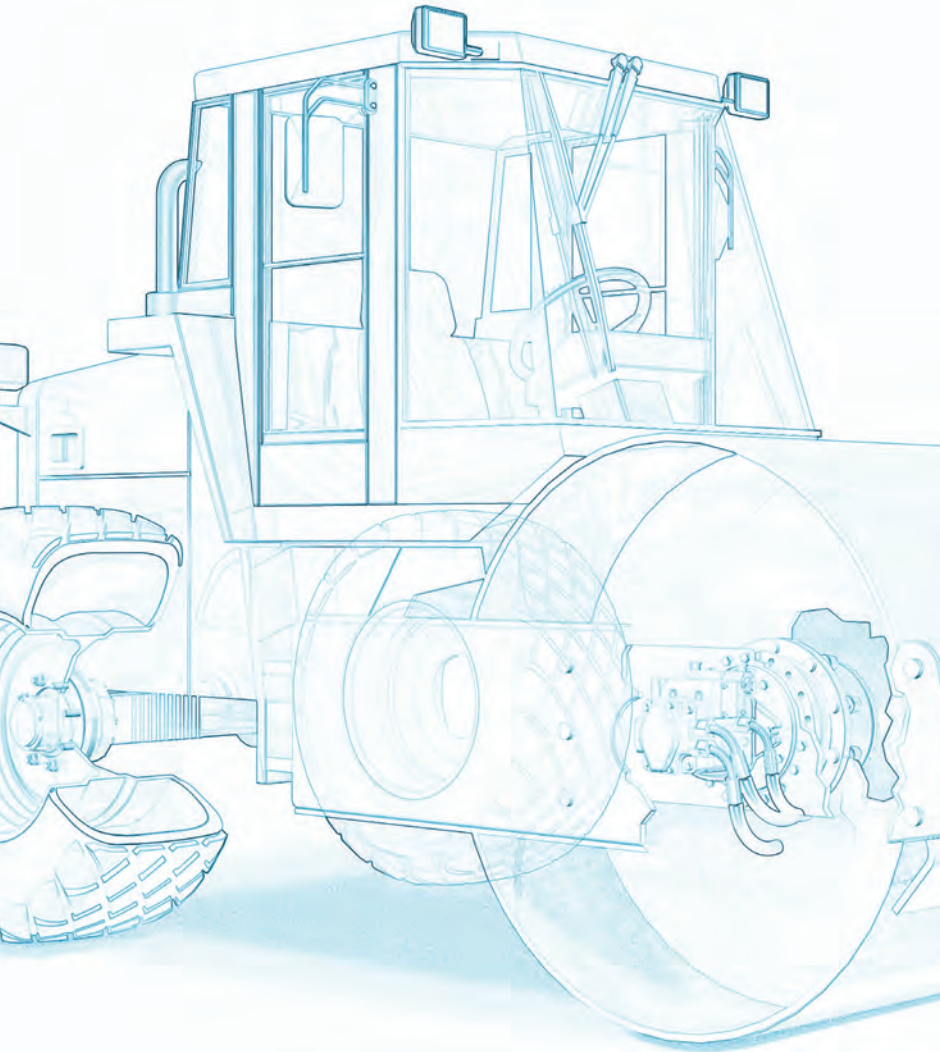










comer industries

**ROAD
CONSTRUCTION**



10/17 EDITION

 **comer industries**

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Comer Industries è leader globale nelle **soluzioni di meccatronica** e nei **sistemi integrati** per la trasmissione di potenza, destinati ai **principali costruttori mondiali di macchine per l'agricoltura e l'industria**.

L'attività produttiva è strutturata su cinque stabilimenti in **Italia**, nelle province di Reggio Emilia, Mantova e a Matera - specializzate per linee di prodotto - e due in **Cina** (Pinghu) e **India** (Bangalore).

Per sviluppare e testare soluzioni all'avanguardia, Comer Industries si avvale del proprio **Centro Ricerche di Meccatronica**, nato nel 1996 e dotato delle ultime tecnologie e strumenti di sperimentazione.

Gli **stabilimenti** Comer Industries nel mondo sono stati progettati secondo i principi del **World Class Manufacturing (WCM)**, una metodologia produttiva integrata di ispirazione giapponese ma sviluppata negli USA negli anni '90 che coinvolge l'intera organizzazione, dalla sicurezza all'ambiente, dalla manutenzione alla logistica e alla qualità, con l'obiettivo della sistematica riduzione degli sprechi per ottenere zero difetti, zero guasti, zero incidenti e zero scorte.

Comer Industries progetta e realizza **trasmissioni altamente personalizzate, versatili ed evolute**, come riduttori epicicloidali modulari, motoruote epicicloidali, riduttori epicicloidali per rotazione, riduttori epicicloidali speciali per applicazioni industriali, assali rigidi e sterzanti, destinati a macchine operatrici mobili e impianti fissi industriali.

La linea di prodotti **Powertrain** è stata sviluppata per fornire ai costruttori **soluzioni e sistemi completi** per l'intera driveline, con una vasta gamma di **assali rigidi e sterzanti**, con o senza riduzione epicicloidale, in combinazione con le più moderne **trasmissioni idrostatiche**.

Il loro impiego principale è nel settore delle macchine stradali, movimento terra e per l'edilizia, dei carrelli elevatori e delle attrezzature per la movimentazione materiali, delle attrezzature aeroportuali, delle macchine per municipalità, di gru e macchine per il sollevamento, da miniera e delle macchine forestali e agricole.

La linea di prodotti **Wheel Drives** è particolarmente adatta alle applicazioni più gravose del settore delle **macchine da costruzione**, grazie alla maggior robustezza e compattezza, accompagnata da una maggiore affidabilità e densità di potenza e in combinazione con i principali motori idraulici.

Comer Industries presidia i principali mercati esteri con le proprie **filiali commerciali** in Francia, Germania, Regno Unito, Stati Uniti, Brasile, Cina e India.



Comer Industries is a global leader in **mechatronic solutions** and **integrated systems for power transmission**, supplied to **major manufacturers** of **agricultural** and **industrial machinery** worldwide.

Industrial operations are structured in five plants in **Italy**, specialized by product line, plus two facilities in **China** (Pinghu) and **India** (Bangalore).

To develop and test advanced product solutions, Comer Industries relies on its **Mechatronics Research Center**, established in 1996 and equipped with the latest technologies and experimental tools.

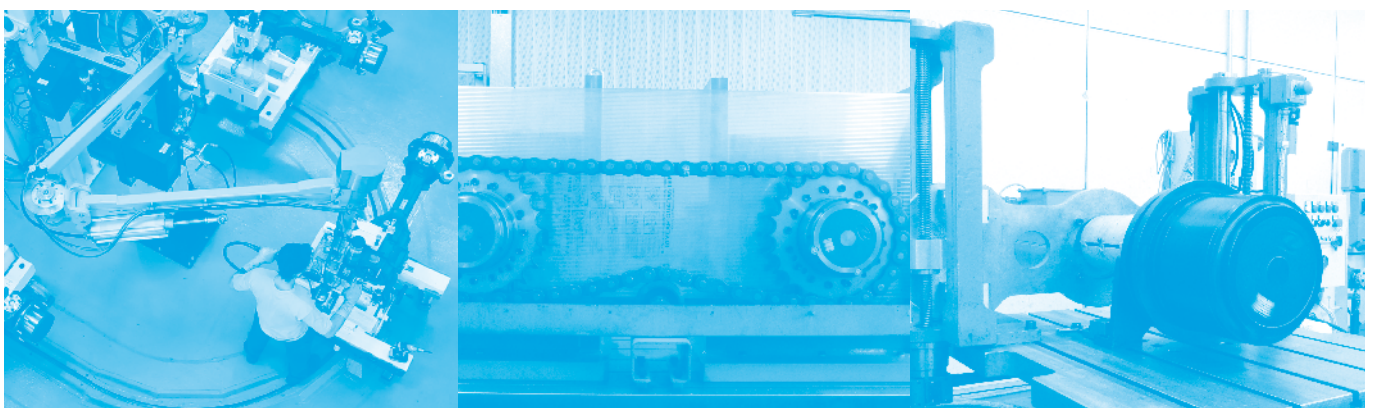
Comer Industries plants worldwide have been designed following the principles of **World Class Manufacturing (WCM)**, a Japanese work-based integrated production methodology developed in the USA in the 1990s which involves the entire organization, from safety to environment, maintenance, logistics and quality. It targets the elimination of all wastes with the ultimate objective of achieving zero defects, zero accidents, zero breakdowns and zero inventory.

Comer Industries designs and manufactures **highly customized, adaptable and advanced transmissions**, such as planetary drives, wheel drives, slew drives, planetary drives for special industrial applications, rigid and steering axles for mobile operating machinery and stationary plants.

The **Powertrain** product line has been developed to support OEM's with **full driveline system product solutions** thanks to an extensive range of **rigid and steering axles**, with or without planetary reduction, in combination with the latest technology of **hydrostatic transmissions**. These products are mainly used to drive road construction & earth moving equipment, forklift trucks and material handling equipment, airport equipment, municipality equipment, construction, cranes and lifting equipment, forestry, mining and agricultural equipment.





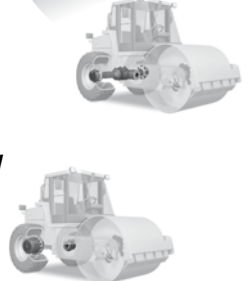




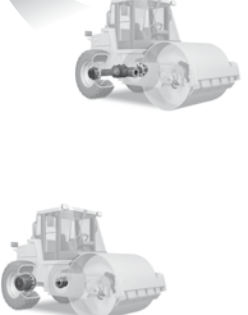
The **Wheel Drives** product line is the most suitable solution for the toughest applications in the **construction equipment**, thanks to its robustness and compactness, coupled with increased reliability and power density. Wheel drives work in combination with the main hydraulic motors.

The company operates in the major world markets through its own **sales subsidiaries** in France, Germany, United Kingdom, United States, Brazil, China and India.


































- Riduttori ad elevate prestazioni per compattatori stradali
- *Highly performance gearboxes for single drum compactors*

Peso operativo Operating Weight [t]	Trasmissione anteriore (Drum Drive) Front Transmission (Drum Drive)	Trasmissione posteriore Rear Transmission
5.0 ÷ 7.0	<p>PGR-800</p>  <p>Type T</p> 	<p>F-128</p>  <p>Option1</p> <p>PGR-800 x 2</p>  <p>Option2</p> <p>Type W</p> 
7.0 ÷ 9.0	<p>PGR-1700</p>  <p>Type T</p> 	<p>F-138</p>  <p>Option1</p> <p>PGR-1700 x 2</p>  <p>Option2</p> <p>Type W</p> 




Peso operativo <i>Operating Weight</i> [t]	Trasmissione anteriore (Drum Drive) <i>Front Transmission (Drum Drive)</i>	Trasmissione posteriore <i>Rear Transmission</i>
<p>9.0 ÷ 10.0</p>	<p>PGR-2500</p>  <p>Type T</p> 	<p>F-228</p>  <p>Option1</p> <p>PGR-2500 x 2</p>  <p>Option2</p> <p>Type W</p> 
<p>10.0 ÷ 12.0</p>	<p>PGR-2500</p>  <p>Type T</p> 	<p>F-258</p>  <p>Option1</p> <p>PGR-2500 x 2</p>  <p>Option2</p> <p>Type W</p> 
<p>12.0 ÷ 14.0</p>	<p>PGR-3600</p>  <p>Type T</p> 	<p>F-258</p>  <p>Option1</p> <p>PGR-2500 x 2</p>  <p>Option2</p> <p>Type W</p> 



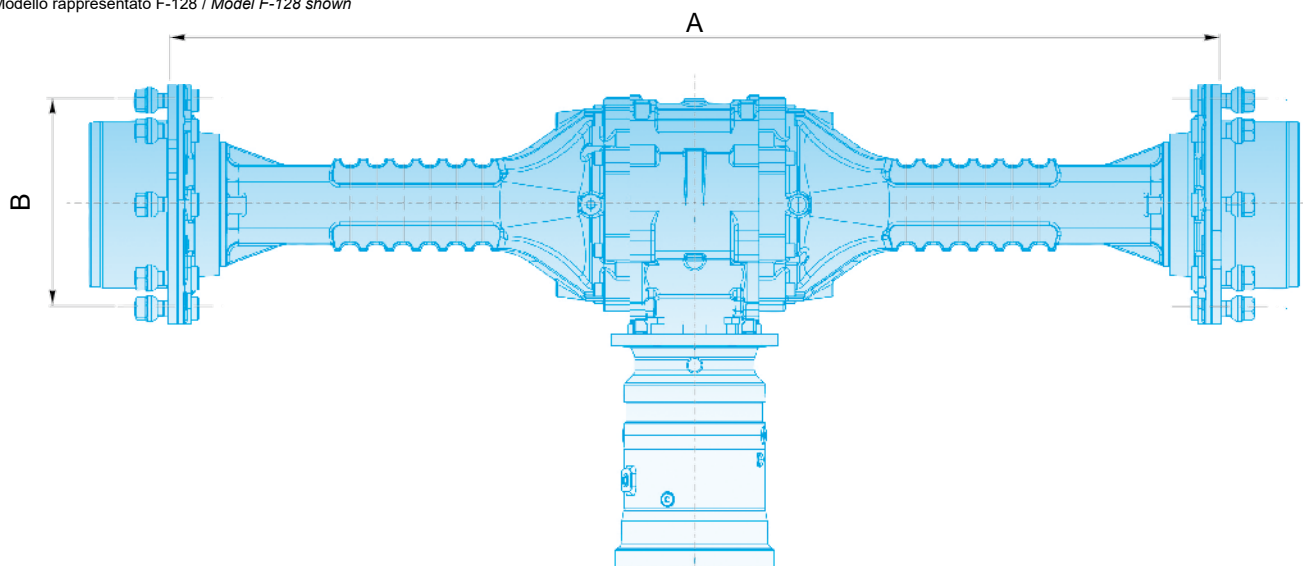
Peso operativo Operating Weight [t]	Trasmissione anteriore (Drum Drive) Front Transmission (Drum Drive)	Trasmissione posteriore Rear Transmission
<p>14.0 ÷ 18.0</p>	<p>PGR-3600</p>  <p>Type T</p> 	<p>F-328</p>  <p>Option1</p> <p>PGR-2500 x 2</p>  <p>Option2</p> <p>Type W</p> 
<p>18.0 ÷ 21.0</p>	<p>PGR-4800</p>  <p>Type T</p> 	<p>F-358</p>  <p>Option1</p> <p>PGR-3600 x 2</p>  <p>Option2</p> <p>Type W</p> 
<p>21.0 ÷ 27.0</p>	<p>PGR-6000</p>  <p>Type T</p> 	<p>PGR-3600 x 2</p>  <p>Type W</p> 



Peso operativo <i>Operating Weight</i> [t]	Trasmissione anteriore (Drum Drive) <i>Front Transmission (Drum Drive)</i>	Trasmissione posteriore <i>Rear Transmission</i>
27.0 ÷ 33.0	<p>PGR-8000</p> 	-



Modello rappresentato F-128 / Model F-128 shown



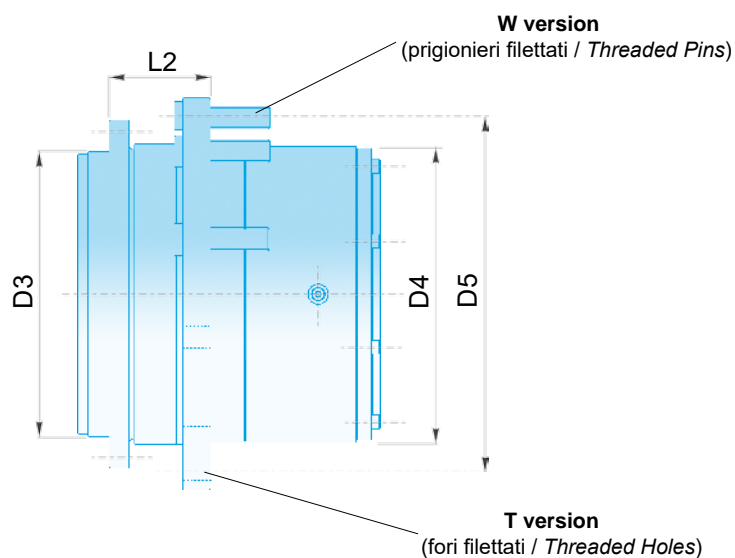
Assali Axles	Portata dinamica max. Max. Dynamic Load [daN]	Coppia max. Max. Torque [daNm]	Rapp.rid.totale Total Red. Ratio	A [mm]	B [mm]
F-128	6600	2400	25.7:1	1390	ø 275
F-138	6600	2800	÷ 138.2:1	÷ 1670	ø 275
F-228	10000	3400	50.7:1 ÷ 127.5:1	1530 ÷ 1790	ø 275 ø 335
F-258	12000	4200	54.1:1 ÷ 161.1:1		ø 335
F-328	15000	5300	48.6:1 ÷ 135.7:1		ø 335 ø 425
F-358	18000	6500			

I valori di portata dinamica si riferiscono ad assali con montaggio staffato rigido.
The dynamic load values refer to rigid mounted axles.

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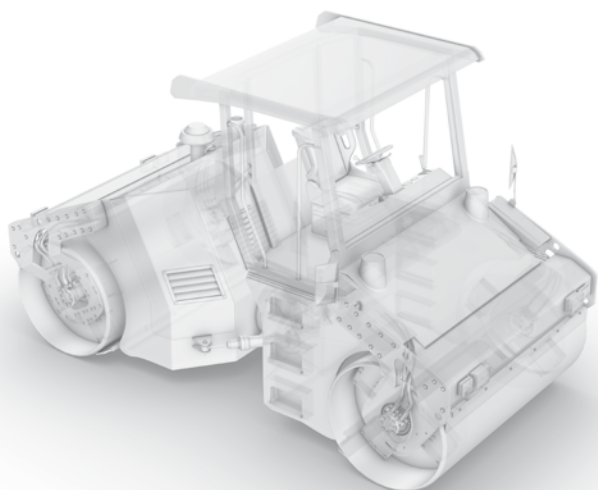


PGR series

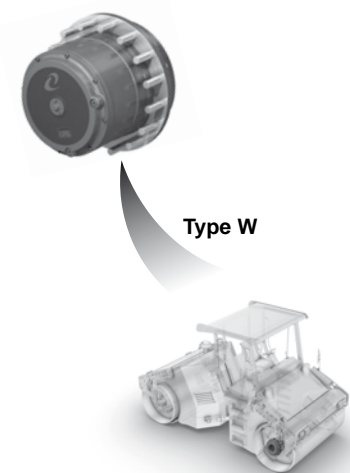
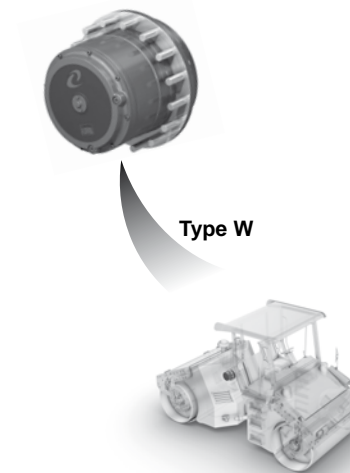
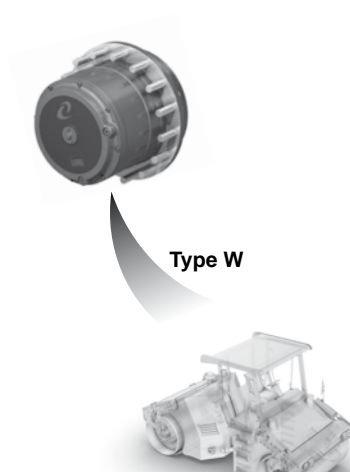
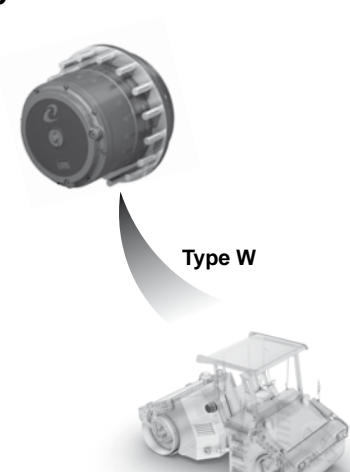


Trasmissioni Transmissions	Coppia max. Max. Torque [Nm]	D3 [mm]	D4 [mm]	L2 [mm]	D5	
					Type T [mm]	Type W [mm]
PGR-800	10000	190	220	72	ø 260	ø 275
PGR-1700	18000	270	280	96	ø 330	ø 335
PGR-2500	25000	240	300	82	ø 340	ø 355
PGR-3600	36000	270	320	90	ø 350	ø 380
PGR-4800	48000	270	350	91	ø 400	ø 400
PGR-6000	60000	290	370	90	ø 410	ø 410
PGR-8000	80000	330	400	90	ø 450	ø 450


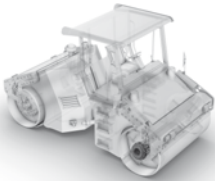

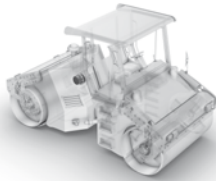

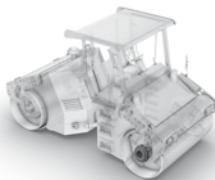

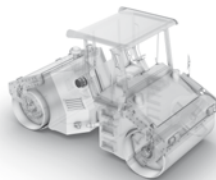

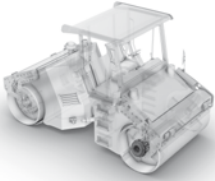

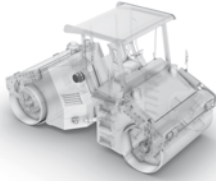
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- Riduttori ad elevate prestazioni per doppi rulli
- *Highly performance gearboxes for double drum compactors*

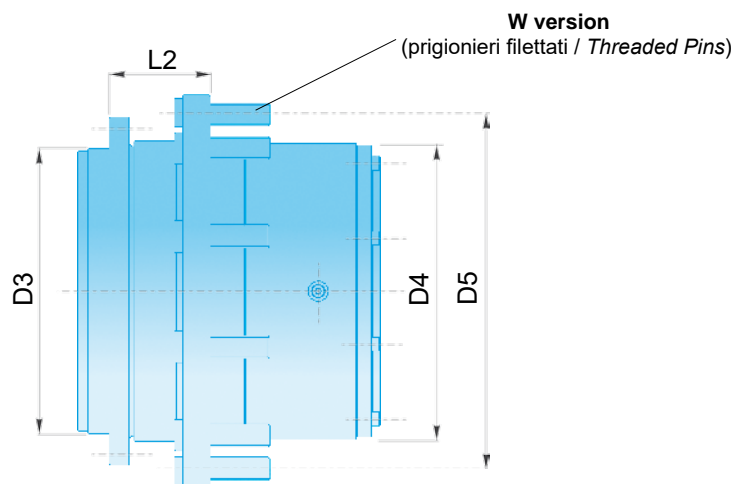
Peso operativo Operating Weight [t]	Trasmissione anteriore (Drum Drive) Front Transmission (Drum Drive)	Trasmissione posteriore Rear Transmission
<p>4.0 ÷ 7.5</p>	<p>PGR-800</p> 	<p>PGR-800</p> 
<p>7.5 ÷ 12.0</p>	<p>PGR-1700</p> 	<p>PGR-1700</p> 



Peso operativo <i>Operating Weight</i> [t]	Trasmissione anteriore (Drum Drive) <i>Front Transmission (Drum Drive)</i>	Trasmissione posteriore <i>Rear Transmission</i>
12.0 ÷ 13.5	PGR-2500  Type W 	PGR-2500  Type W 
13.5 ÷ 18.0	PGR-3600  Type W 	PGR-3600  Type W 
18.0 ÷ 21.0	PGR-4800  Type W 	PGR-4800  Type W 



PGR series

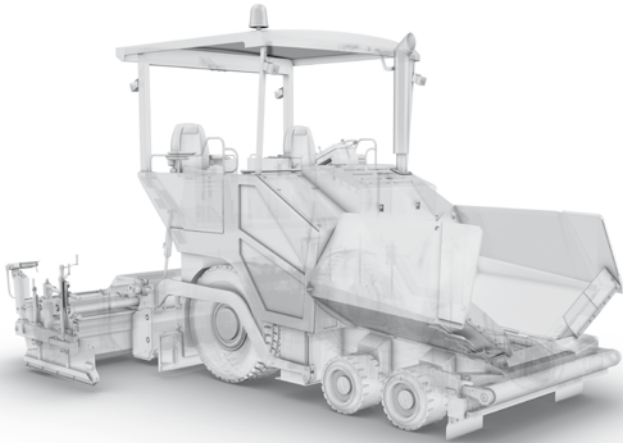


Trasmissioni <i>Transmissions</i>	Coppia max. <i>Max. Torque</i>	D3	D4	L2	D5 Type W
	[Nm]	[mm]	[mm]	[mm]	[mm]
PGR-800	10000	190	220	72	ø 275
PGR-1700	18000	270	280	96	ø 335
PGR-2500	25000	240	300	82	ø 355
PGR-3600	36000	270	320	90	ø 380
PGR-4800	48000	270	350	91	ø 400









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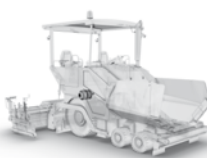


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- Riduttori a singola e doppia velocità specifici per pavidmentatrici stradali
- *Single and double speed gearboxes specifically designed for paver equipment*

Singola velocità <i>Single Speed</i>	Trasmissione convogliatore/coclea <i>Auger/Conveyor Transmission</i>	Trasmissione moto <i>Propel Transmission</i>
Peso operativo <i>Operating Weight</i> [t] 6.0 ÷ 12.0	PG-160 PG-250 PG-500 PG-700  	PGR-1700  Type W 
12.0 ÷ 18.0	PG-160 PG-250 PG-500 PG-700  	PGR-2500  Type W 

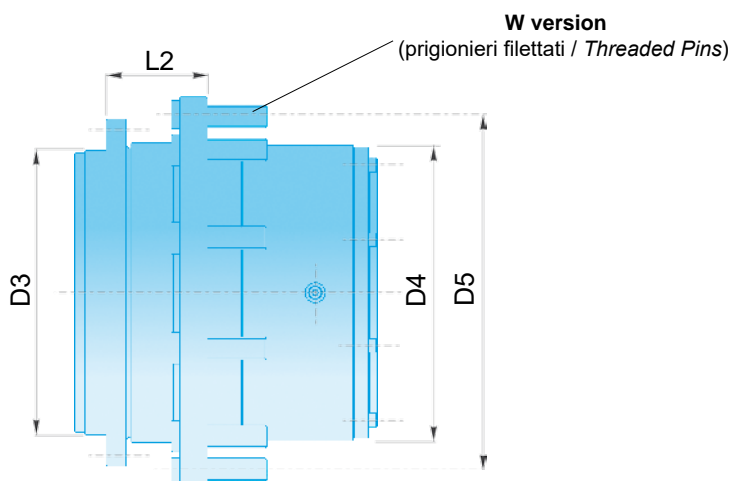


Singola velocità <i>Single Speed</i>		
Peso operativo <i>Operating Weight</i> [t]	Trasmissione convogliatore/coclea <i>Auger/Conveyor Transmission</i>	Trasmissione moto <i>Propel Transmission</i>
18.0 ÷ 27.0	PG-160 PG-250 PG-500 PG-700  	PGR-3600  <p>Type W</p> 
27.0 ÷ 35.0	PG-160 PG-250 PG-500 PG-700  	PGR-4800  <p>Type W</p> 

Doppia velocità <i>Double Speed</i>		
Peso operativo <i>Operating Weight</i> [t]	Trasmissione convogliatore/coclea <i>Auger/Conveyor Transmission</i>	Trasmissione moto <i>Propel Transmission</i>
15.0 ÷ 22.0	PG-160 PG-250 PG-500 PG-700  	PGR-3402/3  <p>Type W</p> 



PGR series



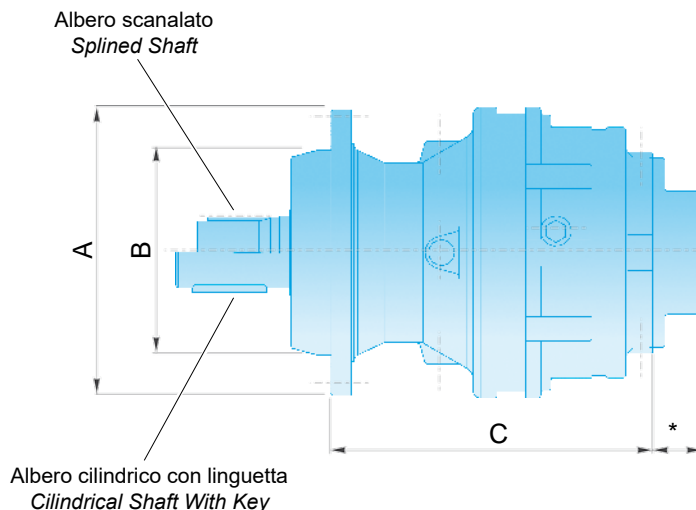
Singola velocità Single Speed					
Trasmissioni Transmissions	Coppia max. Max. Torque [Nm]	D3 [mm]	D4 [mm]	L2 [mm]	D5 Type W [mm]
PGR-1700	18000	270	280	96	ø 335
PGR-2500	25000	240	300	82	ø 355
PGR-3600	36000	270	320	90	ø 380
PGR-4800	48000	270	350	91	ø 400

Doppia velocità Double Speed					
Trasmissioni Transmissions	Coppia max. Max. Torque [Nm]	D3 [mm]	D4 [mm]	L2 [mm]	D5 Type W [mm]
PGR-3402/3	44000	330	367	139	ø 425.45

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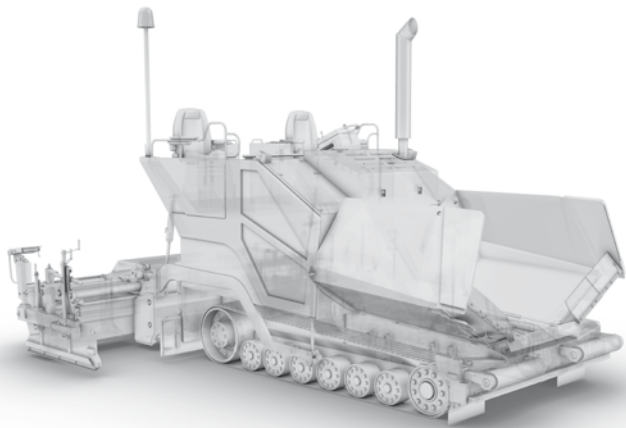
PG series











* Questa quota differisce a seconda delle dimensioni del motore idrostatico.
This quote differs depending on the hydrostatic motor size.

Trasmissioni Transmissions	Tipo Type	Coppia continua Continuous Torque [Nm]	A max. [mm]	B max. [mm]	C max. [mm]
PG-160	PG-161	1600	185	110	196
	PG-162				
PG-250	PG-251	2500	272	175	221
	PG-252				
PG-500	PG-501	5000	272	175	246
	PG-502				
PG-700	PG-701	7000	280	200	311
	PG-702				


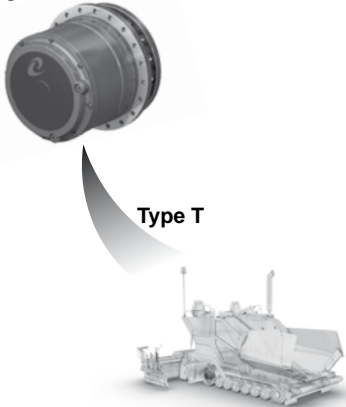

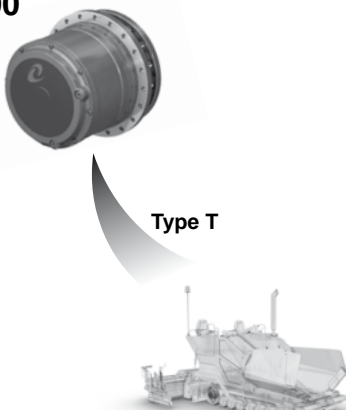

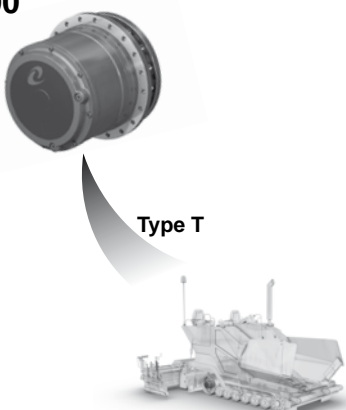
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- Riduttori a singola e doppia velocità specifici per pavimentatrici stradali
- *Single and double speed gearboxes specifically designed for paver equipment*

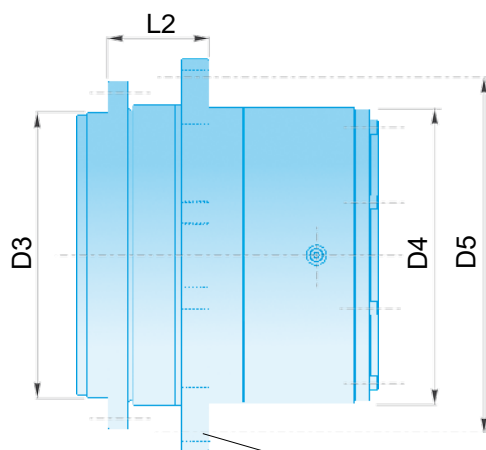
Peso operativo Operating Weight [t]	Trasmissione convogliatore/coclea Auger/Conveyor Transmission	Trasmissione moto Propel Transmission
<p>5.0 ÷ 8.0</p>	<p> PG-160 PG-250 PG-500 PG-700 </p>  	<p>PGR-800</p>  <p>Type T</p> 
<p>8.0 ÷ 12.0</p>	<p> PG-160 PG-250 PG-500 PG-700 </p>  	<p>PGR-1700</p>  <p>Type T</p> 



Peso operativo Operating Weight [t]	Trasmissione convogliatore/coclea Auger/Conveyor Transmission	Trasmissione moto Propel Transmission
12.0 ÷ 14.0	PG-160 PG-250 PG-500 PG-700 	PGR-2500 
14.0 ÷ 17.0	PG-160 PG-250 PG-500 PG-700 	PGR-3600 
17.0 ÷ 22.0	PG-160 PG-250 PG-500 PG-700 	PGR-4800 



PGR series



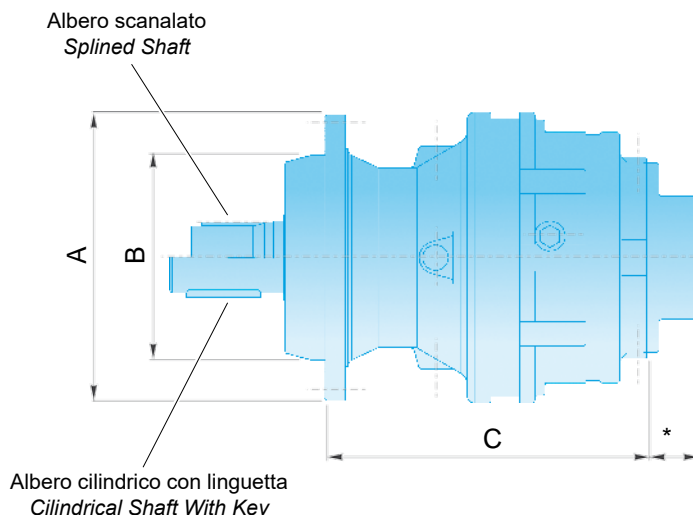
T version
(fori filettati / Threaded Holes)

Trasmissioni <i>Transmissions</i>	Coppia max. <i>Max. Torque</i>	D3	D4	L2	D5 Type T
	[Nm]	[mm]	[mm]	[mm]	[mm]
PGR-800	10000	190	220	72	ø 260
PGR-1700	18000	270	280	96	ø 330
PGR-2500	25000	240	300	82	ø 340
PGR-3600	36000	270	320	90	ø 350
PGR-4800	48000	270	350	91	ø 400

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PG series



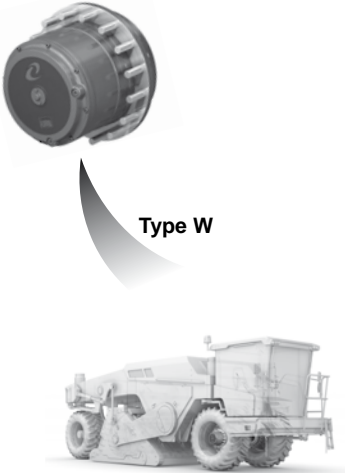
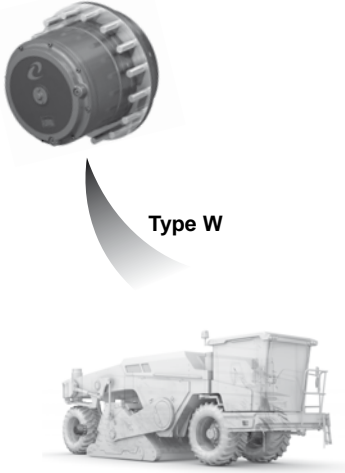
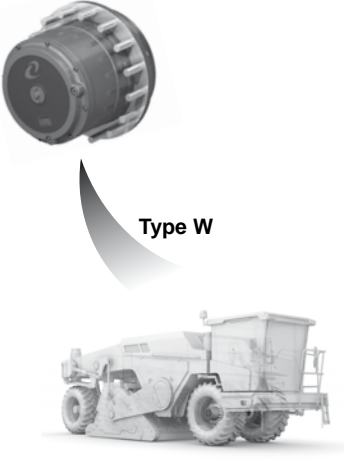
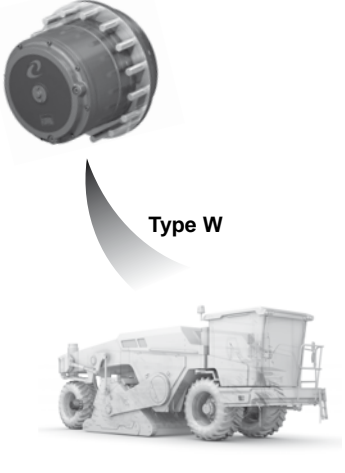
* Questa quota differisce a seconda delle dimensioni del motore idrostatico.
This quote differs depending on the hydrostatic motor size.

Trasmissioni <i>Transmissions</i>	Tipo <i>Type</i>	Coppia max. <i>Max. Torque</i>	A	B	C
		[Nm]	[mm]	[mm]	[mm]
PG-160	PG-161	1600	185	110	196
	PG-162				
PG-250	PG-251	2500	272	175	221
	PG-252				
PG-500	PG-501	5000	272	175	246
	PG-502				
PG-700	PG-701	7000	280	200	311
	PG-702				

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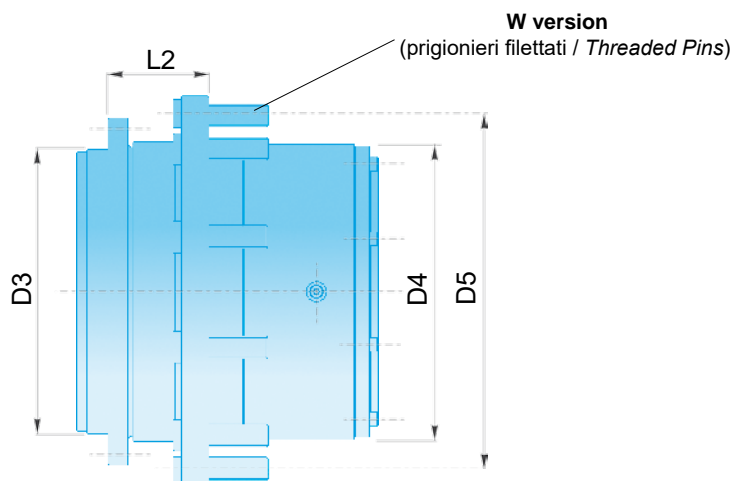
- Riduttori ad elevata compattezza per stabilizzatrici stradali
- *Highly compact wheel drives for road reclaimers*

Peso operativo Operating Weight [t]	Trasmissione anteriore Front Transmission	Trasmissione posteriore Rear Transmission
<p>25.0 ÷ 36.0</p>	<p>PGR-3600 x 2</p> 	<p>PGR-3600 x 2</p> 
<p>36.0 ÷ 45.0</p>	<p>PGR-4800 x 2</p> 	<p>PGR-4800 x 2</p> 



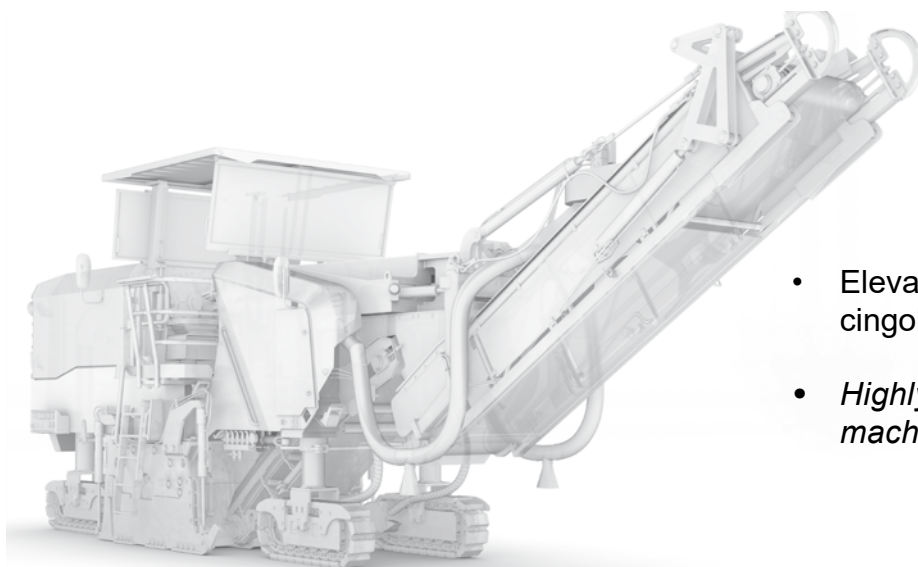
Peso operativo Operating Weight [t]	Trasmissione anteriore Front Transmission	Trasmissione posteriore Rear Transmission
45.0 ÷ 60.0	PGR-6000 x 2 	PGR-6000 x 2

PGR series



Trasmissioni Transmissions	Coppia max. Max. Torque [Nm]	D3 [mm]	D4 [mm]	L2 [mm]	D5 Type W [mm]
PGR-3600	36000	270	320	90	ø 380
PGR-4800	48000	270	350	91	ø 400
PGR-6000	60000	290	370	90	ø 410

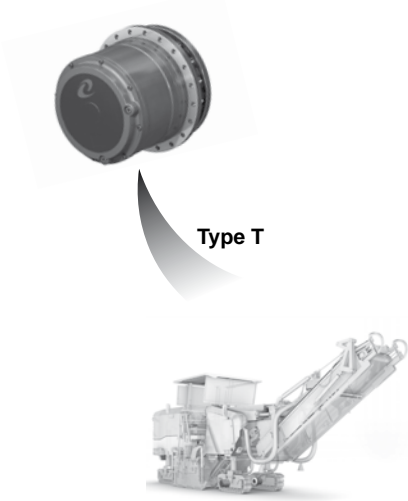
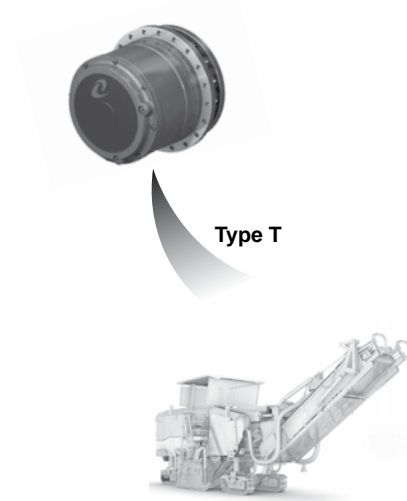
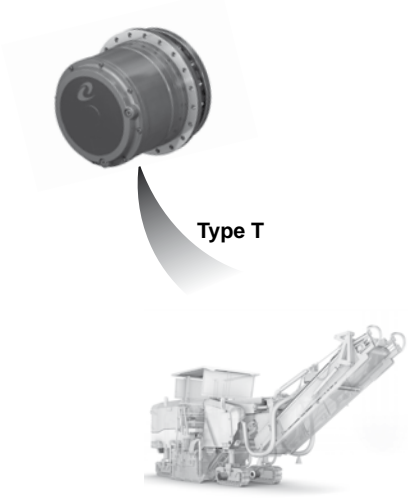
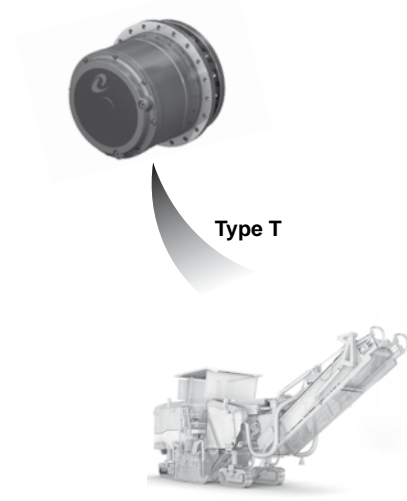
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- Elevata compattezza dei riduttori cingolo per frese stradali
- *Highly compact track drives for milling machines*

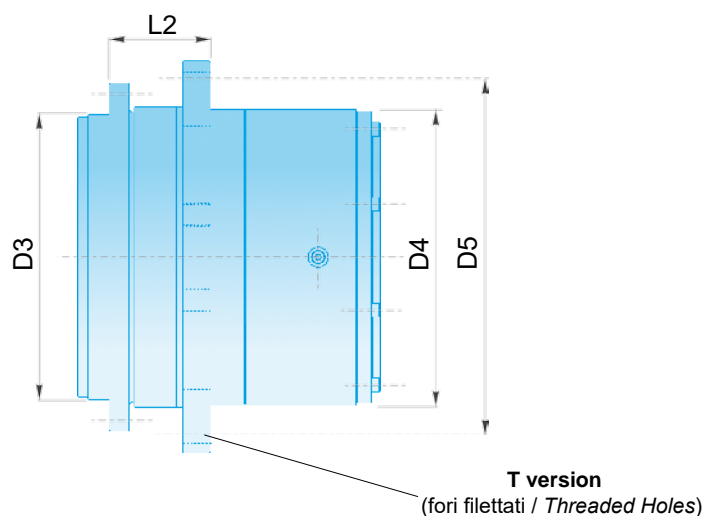
Peso operativo Operating Weight [t]	Trasmissione anteriore Front Transmission	Trasmissione posteriore Rear Transmission
<p>8.0 ÷ 25.0</p>	<p>PGR-800 x 2</p> <p>Type T</p>	<p>PGR-800 x 2</p> <p>Type T</p>
<p>25.0 ÷ 36.0</p>	<p>PGR-1700 x 2</p> <p>Type T</p>	<p>PGR-1700 x 2</p> <p>Type T</p>



Peso operativo Operating Weight [t]	Trasmissione anteriore Front Transmission	Trasmissione posteriore Rear Transmission
<p>36.0 ÷ 45.0</p>	<p>PGR-2500 x 2</p> 	<p>PGR-2500 x 2</p> 
<p>45.0 ÷ 60.0</p>	<p>PGR-3600 x 2</p> 	<p>PGR-3600 x 2</p> 



PGR series



Trasmissioni <i>Transmissions</i>	Coppia max. <i>Max. Torque</i>	D3	D4	L2	D5 Type T
	[Nm]	[mm]	[mm]	[mm]	[mm]
PGR-800	10000	190	220	72	ø 260
PGR-1700	18000	270	280	96	ø 330
PGR-2500	25000	240	300	82	ø 340
PGR-3600	36000	270	320	90	ø 350

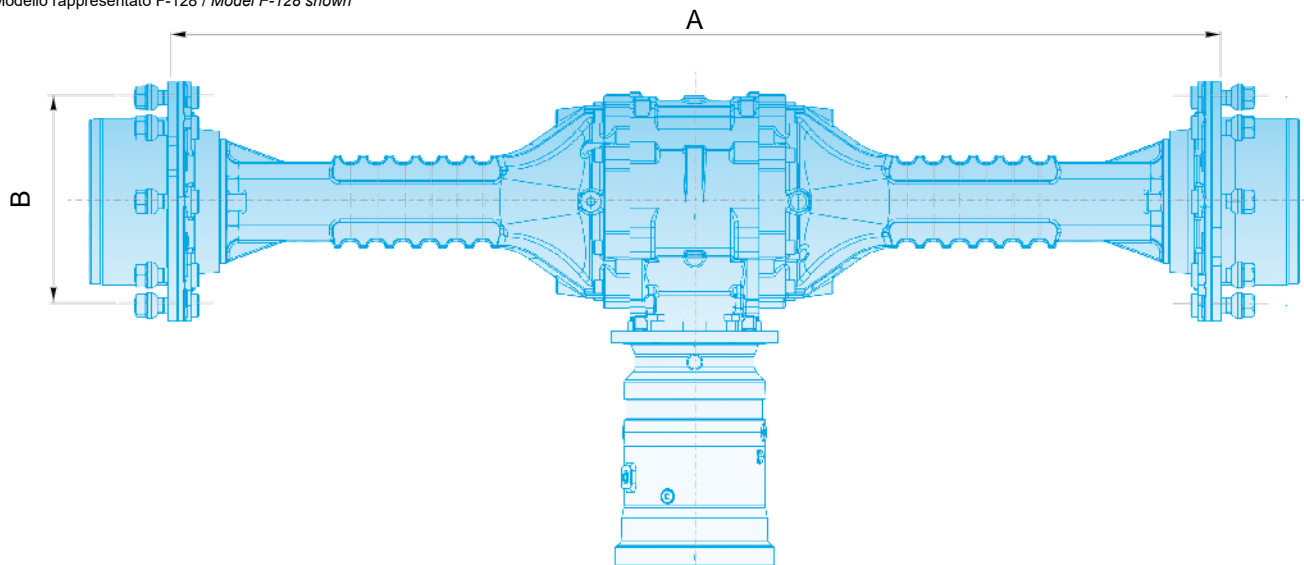
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Modello rappresentato F-128 / Model F-128 shown

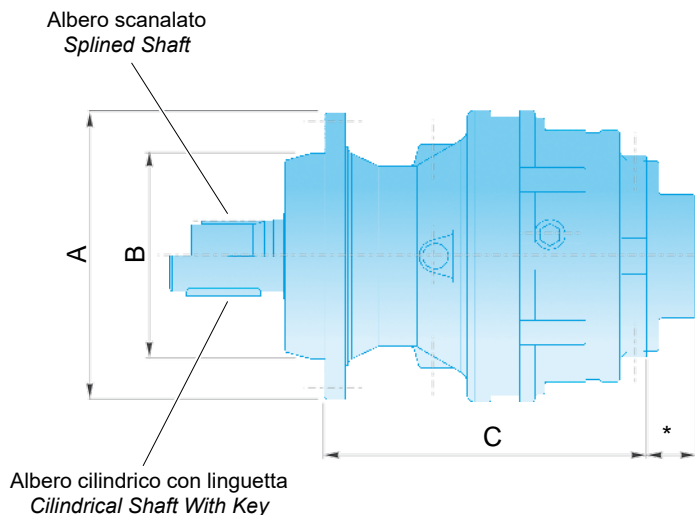


Assali Axles	Portata dinamica max. Max. Dynamic Load [daN]	Coppia max. Max. Torque [daNm]	Rapp.rid.totale Total Red. Ratio	A [mm]	B [mm]
F-128	6600	2400	25.7:1	1390	∅ 275
F-138	6600	2800	÷ 138.2:1	÷ 1670	∅ 275
F-228	10000	3400	50.7:1 ÷ 127.5:1	1530 ÷ 1790	∅ 275 ∅ 335
F-258	12000	4200	54.1:1 ÷ 161.1:1		∅ 335
F-328	15000	5300	48.6:1 ÷ 135.7:1		∅ 335 ∅ 425
F-358	18000	6500			

I valori di portata dinamica si riferiscono ad assali con montaggio staffato rigido.
The dynamic load values refer to rigid mounted axles.

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PG series

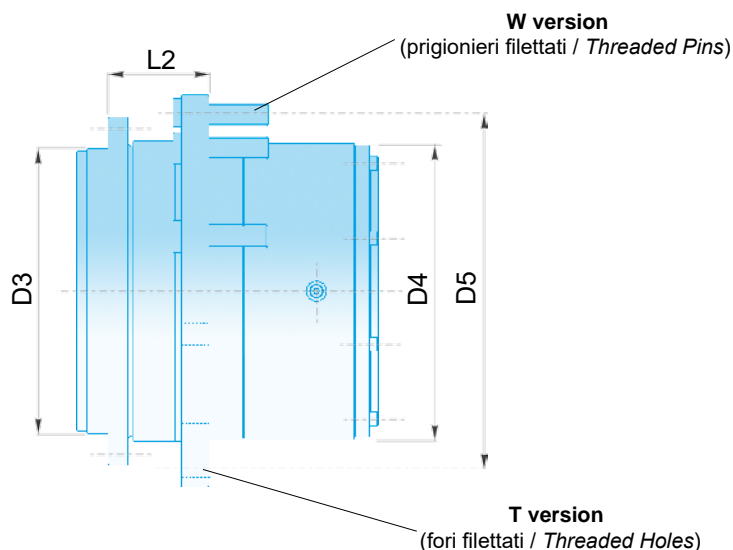


* Questa quota differisce a seconda delle dimensioni del motore idrostatico.
This quote differs depending on the hydrostatic motor size.

Trasmissioni Transmissions	Tipo Type	Coppia max. Max. Torque	A	B	C
		[Nm]	[mm]	[mm]	[mm]
PG-160	PG-161	1600	185	110	196
	PG-162				
PG-250	PG-251	2500	272	175	221
	PG-252				
PG-500	PG-501	5000	272	175	246
	PG-502				
PG-700	PG-701	7000	280	200	311
	PG-702				

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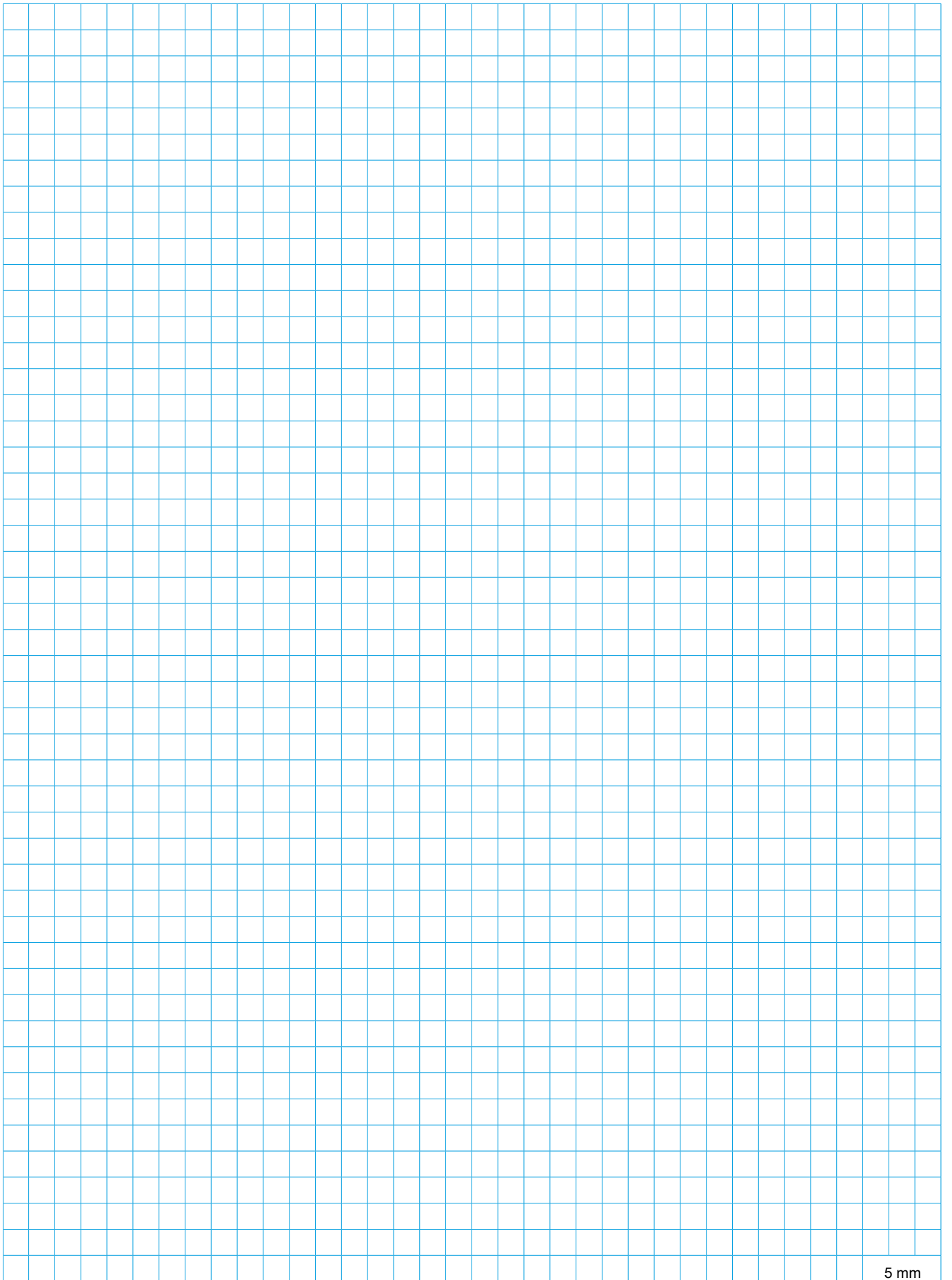
PGR series



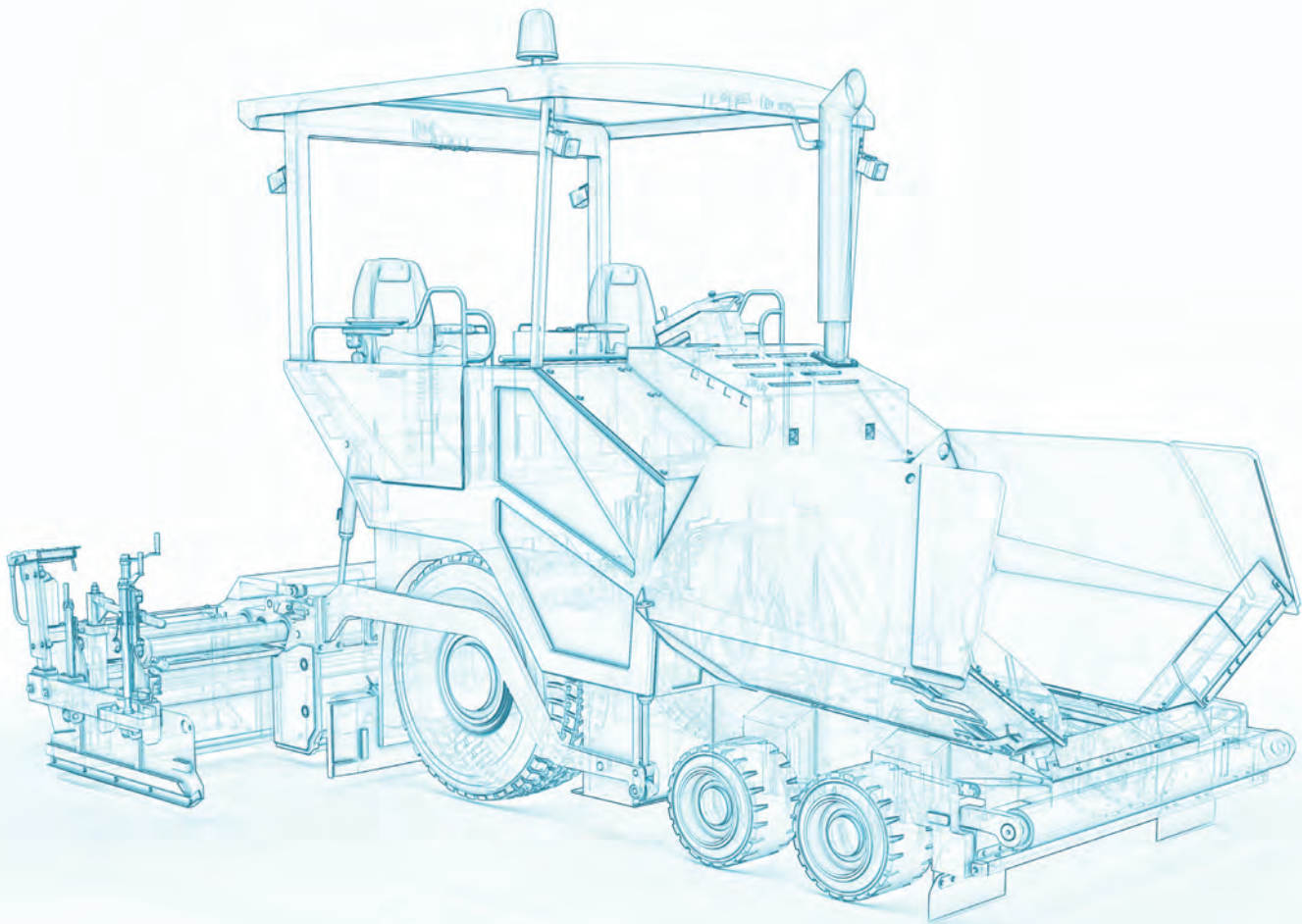
Singola velocità Single Speed						
Trasmissioni Transmissions	Coppia max. Max. Torque [Nm]	D3 [mm]	D4 [mm]	L2 [mm]	D5	
					Type T [mm]	Type W [mm]
PGR-800	10000	190	220	72	260	275
PGR-1700	18000	270	280	96	330	335
PGR-2500	25000	240	300	82	340	355
PGR-3600	36000	270	320	90	350	380
PGR-4800	48000	270	350	91	400	400
PGR-6000	60000	290	370	90	410	410
PGR-8000	80000	330	400	90	450	450

Doppia velocità Double Speed						
Trasmissioni Transmissions	Coppia max. Max. Torque [Nm]	D3 [mm]	D4 [mm]	L2 [mm]	D5	
					Type T [mm]	Type W [mm]
PGR-3402/3	44000	330	367	139	-	425.45

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