

Planetary Travel & Hoist Drives



Profile



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.

Founded in 1970 in Reggiolo, Reggio Emilia, Italy, for the manufacturing of gearboxes for agricultural machinery, the company has progressively expanded its range with complete transmissions also for the industrial and mobile markets, to ensure customers added value and competitive advantages.

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

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.

PLANETARY TRAVEL & HOIST DRIVES series is available for **track drives**, **wheel drives** and **winch drives** configurations, which can be used on a wider range of mobile equipments, as well as construction, agriculture and marine applications.

PLANETARY TRAVEL & HOIST DRIVES transmissions are the most suitable choice for **heavy duty applications**, through a **more compact and robust solution**, that features **higher output torque and load capacity** along with **increased reliability**. Application engineering allows to solve any customer's problems, granting **continuous improvement**, **quality** and **total service**.

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

Comer Academy, the in-house management school, promotes **human resources** growth through training programs and attracts young, creative talents.



Quality Management System & Customer Care



• ISO 9001:2008

- ISO 14001:2004
- OHSAS 18001

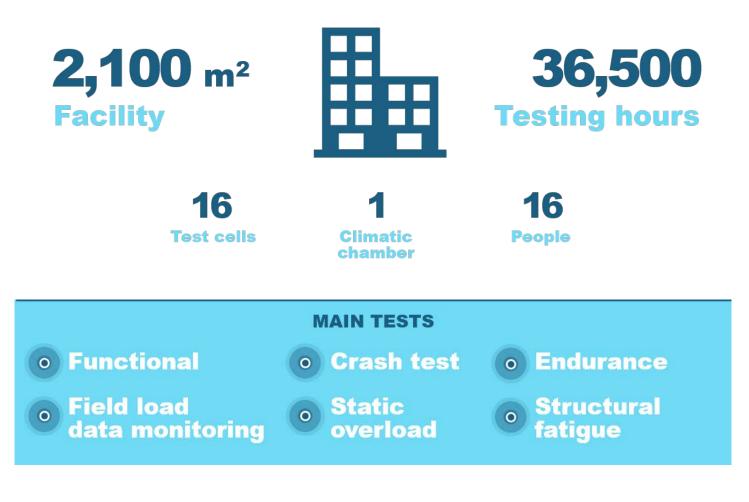
- **PPAP** (Production Part Approval Process) in compliance with the IATF 16949 automotive requirements
- **SIX SIGMA** culture on the basis of total quality management (TQM) standards
- FMEA (failure mode and effects analysis)



Mechatronics **Research Center**

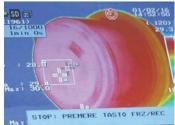
To develop and test advanced product solutions, Comer Industries established its Mechatronics Research Center, (1996), equipped with the latest technologies and experimental tools. Covering an area of 2,100 m², this facility has 1 climate chamber and 16 soundproofed test cells, equipped with cutting-edge devices and simulators to reproduce machine operating environment, thus optimizing product performances and reducing both prototyping lead-time and customer time-to-market for new machines. Its team of application engineers is specialized in acquiring machine performance data, using advanced measuring instruments.

Comer Industries can also rely on its Metallographic Laboratory for chemical and materials' analysis.









Range

TRACK DRIVES



WHEEL DRIVES



WINCH DRIVES



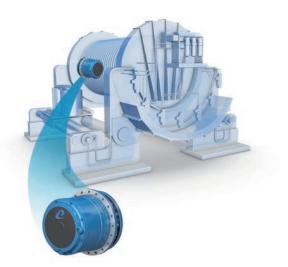




Series PGR W



Series PGR H









Series PGR T

TRACK DRIVES

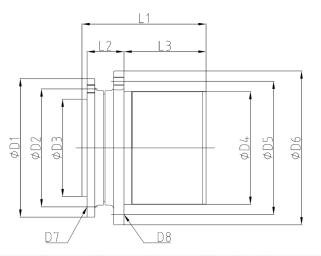
Either in the mobile construction or in the agricultural market, the right Comer Industries PGR T drive can be found to fit the needs.

Its **compact design**, **improved robustness**, **increased power density** and **suitability** for most of cartridge fixed and variable displacement **hydraulic motors** will make the PGR T series the best option for any crawler machine.

Equipped with internal parking brake and on request with disconnection.

Transmission Ratio i	Maximum Torque Nm	Braking Torque Nm	Maximum Input Speed rpm	Minimum Opening Pressure bar	Weight kg
20-54	10,000	150-300	3,500	15-20	58
19-141	18,000	320-460	3,500	15-20	98
16-151	25,000	200-600 (*)	3,500	15-20	120
16-151	36,000	200-600 (*)	3,500	15-20	140
16-151	48,000	200-600 (*)	3,500	15-20	170
64-202	60,000	320-700	3,000	15-30	250
64-202	80,000	320-700	3,000	15-30	270
64-202	90,000	600-1,300	3,000	15-23	400
64-202	110,000	600-1,300	3,000	15-23	420
	i 20-54 19-141 16-151 16-151 16-151 64-202 64-202 64-202	i Nm 20-54 10,000 19-141 18,000 16-151 25,000 16-151 36,000 16-151 48,000 64-202 60,000 64-202 80,000 64-202 90,000	i Nm Nm 20-54 10,000 150-300 19-141 18,000 320-460 16-151 25,000 200-600 (*) 16-151 36,000 200-600 (*) 16-151 48,000 200-600 (*) 64-202 60,000 320-700 64-202 80,000 320-700 64-202 90,000 600-1,300	i Nm Nm rpm 20-54 10,000 150-300 3,500 19-141 18,000 320-460 3,500 16-151 25,000 200-600 (*) 3,500 16-151 36,000 200-600 (*) 3,500 16-151 48,000 200-600 (*) 3,500 64-202 60,000 320-700 3,000 64-202 80,000 320-700 3,000 64-202 90,000 600-1,300 3,000	iNmNmrpmbar20-5410,000150-3003,50015-2019-14118,000320-4603,50015-2016-15125,000200-600 (*)3,50015-2016-15136,000200-600 (*)3,50015-2016-15148,000200-600 (*)3,50015-2064-20260,000320-7003,00015-3064-20280,000320-7003,00015-3064-20290,000600-1,3003,00015-23

(*) Dimensions may change according to the selected hydraulic motors.



							L1		L3		
Size	D1	D2	D3	D4	D5	D6	2/3 Stages	L2	2/3 Stages	D7	8 M16x18 20 M16x20 6 M16x1.5-n°20
PGR-802 T	270	230	190	220	260	300	270	72	161	M16x16	M16x16
PGR-1702/3 T	330	300	270	280	330	372	287/332	96	161/206	M16x18	M16x18
PGR-2502/3 T	320 (*)	285 (*)	240 (*)	300	340	370	324/342 (*)	82	220/240	M20x20	M16x20
PGR-3602/3 T	350 (*)	310 (*)	270 (*)	320	350	380	340/361 (*)	90	220/241	M20x16	M16x1.5-n°20
PGR-4802/3 T	350 (*)	310 (*)	270 (*)	350	400	435	350/370 (*)	91	229/249	M20x16	M20x16
PGR-6003 T	410	370	330	400	450	490	413	90	297	M20x20	M20x1.5-n°20
PGR-8003 T	410	370	330	400	450	490	413	90	297	M20x20	M20x1.5-n°20
PGR-9003 T	500	460	420	460	500	540	490	165	305	M24x24	M18x1.5-n°36
PGR-11003 T	500	460	420	460	500	540	490	165	305	M24x24	M18x1.5-n°36

(*) Dimensions may change according to the selected hydraulic motors.

Series PGR W

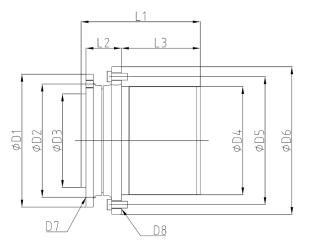
WHEEL DRIVES

The **compact design**, the **enhanced performances** and the **high load tapered roller bearings** of PGR W series will deliver the requested **travel speed** and the desired **mobility** necessary to succeed in the wheeled applications, such as paving, agricultural or forestry machines. By incorporating a disconnect device, available as option, PGR W series allows a vehicle to be towed in case of hydraulic system failure.

Equipped with internal parking brake and suitable for SAE and cartridge hydraulic motors.

Size	Transmission Ratio i	Maximum Torque Nm	Braking Torque Nm	Maximum Input Speed rpm	Minimum Opening Pressure bar	Weight kg
PGR-802 W	20-54	8,000	150-300	3,500	15-20	58
PGR-1702/3 W	19-141	14,000	320-460	3,500	15-20	98
PGR-2502/3 W	16-151	20,000	200-600 (*)	3,500	15-20	120
PGR-3602/3 W	16-151	28,000	200-600 (*)	3,500	15-20	140
PGR-4802/3 W	16-151	38,000	200-600 (*)	3,500	15-20	170
PGR-6003 W	64-202	48,000	320-700	3,000	15-30	250
PGR-8003 W	64-202	64,000	320-700	3,000	15-30	270
PGR-9003 W	64-202	72,000	600-1,300	3,000	15-23	400
PGR-11003 W	64-202	88,000	600-1,300	3,000	15-23	420

(*) Dimensions may change according to the selected hydraulic motors.



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Size	D1	D2	D3	D4	D5	D6	2/3 Stages	L2	2/3 Stages	D7	D8
PGR-802 W	270	230	190	220	275	310	270	72	161	M16x16	M20x1.5x8
PGR-1702/3 W	330	300	270	280	335	372	287/332	96	161/206	M16x18	M22x1.5x10
PGR-2502/3 W	320 (*)	285 (*)	240 (*)	300	355	400	324/342 (*)	82	220/240	M20x20	M18x1.5-n°20
PGR-3602/3 W	350 (*)	310 (*)	270 (*)	320	380	420	340/361 (*)	90	220/241	M20x16	M22X1.5-n°16
PGR-4802/3 W	350 (*)	310 (*)	270 (*)	350	400	435	350/370 (*)	91	229/249	M20x16	M22X1.5-n°16
PGR-6003 W	410	370	330	400	450	490	413	90	297	M20x20	M22X1.5-n°16
PGR-8003 W	410	370	330	400	450	490	413	90	297	M20x20	M22X1.5-n°16
PGR-9003 W	500	460	420	460	510	550	490	165	305	M24x24	M22X1.5-n°24
PGR-11003 W	500	460	420	460	510	550	490	165	305	M24x24	M22X1.5-n°24

(*) Dimensions may change according to the selected hydraulic motors.

Series PGR W

TWO SPEED WHEEL DRIVES

COMPLETE MECHANICAL SHIFTING MECHANISM

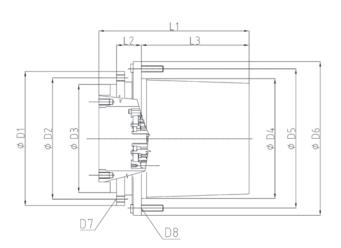
This **patented design drive**, hydraulically controlled shifting HI-LO, has been specifically developed for such application needing a significant **speed difference**, between working and travelling operation.

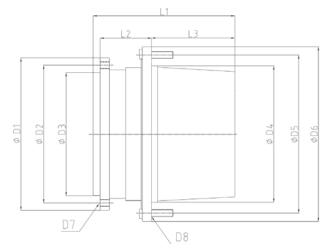
With its wide spread of ratios from HI to LO and the design solution without clutch, it is the ideal solution for paving machines, but also for other construction machines.

Size	Transmission Ratio i	Maximum Torque Nm	Braking Torque Nm	Maximum Input Speed rpm	Minimum Opening Pressure bar	Weight kg
	33.7/119.5					
	33.7/130.4	24.000	100 000	2 800	20	240
PGR-3402/3 W	39.1/138.9	34,000	480-600	3,800	30	240
	39.1/151.6					

VERSION A

VERSION B





Size	D1	D2	D3	D4	D5	D6	L1	L2	L3	D7	D8	Version
PGR-3402/3 W	410	370	330	367	425	470	460	76.2	330	M20x20	M20x1.5x16	А
PGR-3402/3 W	410	370	330	307	420	470	383	139	225	11/20220	M20x1.5x12	В

Series PGR H

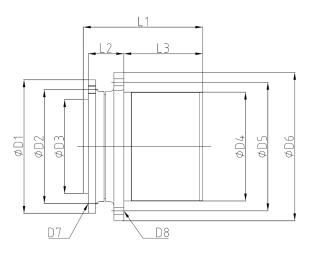
WINCH DRIVES

The PGR H (hoisting) series is the ideal solution for all lifting and winch applications, performing according to FEM standards, in particular the most common class M5-T5-L2 @ 25 rpm.

With its **increased power density** and **reduced dimensions**, the PGR H can be easily accommodated inside the drum, allowing at the same time to reduce at minimum drum's dimension.

The PGR H series features heavy duty tapered roller bearings and internal hydraulic released multidisc brake: it can accommodate the most common SAE axial piston motors but also orbit and electric motors upon request.

Size	Transmission Ratio i	FEM Torque Nm	Braking Torque Nm	Maximum Input Speed rpm	Minimum Opening Pressure bar	Weight kg
PGR-802 H	20-54	5,000	150-350	3,500	15-25	58
PGR-1702/3 H	19-141	12,000	250-500	3,500	15-30	98
PGR-2502/3 H	16-151	17,000	250-900	3,500	20-30	120
PGR-3602/3 H	16-151	26,000	250-900	3,500	20-30	140
PGR-4802/3 H	16-151	36,000	250-900	3,500	20-30	170
PGR-6003 H	64-202	42,000	400-700	3,000	20-30	250
PGR-8003 H	64-202	62,000	400-700	3,000	20-30	270
PGR-9003 H	64-202	75,000	500-1,500	3,000	20-30	400
PGR-11003 H	64-202	90,000	500-1,500	3,000	20-30	420



							L1		L3		
Size	D1	D2	D3	D4	D5	D6	2/3 Stages	L2	2/3 Stages	D7	D8
PGR-802 H	270	230	190	220	260	300	270	72	161	M16x16	Ø18x16
PGR-1702/3 H	330	300	270	280	330	372	287/332	96	161/206	M16x18	Ø18x18
PGR-2502/3 H	320 (*)	285 (*)	240 (*)	300	340	370	324/342 (*)	82	220/240	M20x20	Ø18x20
PGR-3602/3 H	350 (*)	310 (*)	270 (*)	320	350	380	340/361 (*)	90	220/241	M20x16	Ø18x20
PGR-4802/3 H	350 (*)	310 (*)	270 (*)	350	400	435	350/370 (*)	91	229/249	M20x16	Ø22x16
PGR-6003 H	410	370	330	400	450	490	413	90	297	M20x20	Ø22x20
PGR-8003 H	410	370	330	400	450	490	413	90	297	M20x20	Ø22x20
PGR-9003 H	500	460	420	460	500	540	490	165	305	M24x24	Ø22x36
PGR-11003 H	500	460	420	460	500	540	490	165	305	M24x24	Ø22x36

(*) Dimensions may change according to the selected hydraulic motors.

Series PGR H

WINCH DRIVES

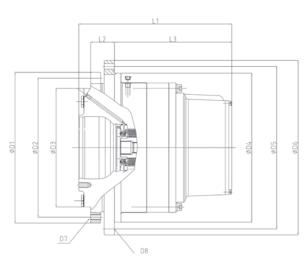
This modular PGR H series, designed mainly for mobile cranes, can easily be accommodated inside any cable drums.

In some configurations, the hydraulically operated, negative parking brake is external to the units, for a **better and easier serviceability**; some others feature dual input for SAE axial piston motors.

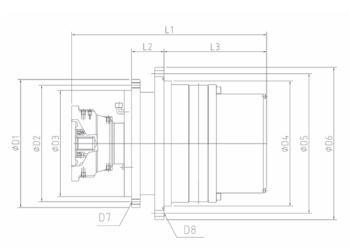
All units perform according to FEM standards, in particular the most common class M5-T5-L2 @ 25rpm.

Size	Transmission Ratio i	FEM Torque Nm	Braking Torque Nm	Maximum Input Speed rpm	Minimum Opening Pressure bar	Weight kg
PGR-3503 H	26/103	45,000	980	3,000	16	370
PGR-6503 H	75-110	77,000	1,600	3,000	20	550
PGR-7503 H	84.7-120	88,000	1,600	3,000	20	600
PGR-7504 H	526.4	88,000	2	3,000		640
PGR-25003 H (**)	187	210,000	1,350x2 brake	3,000	18	2,050

(**) Dual input.







VERSION B

Size D1	r (*		1			L1		L3	1			
	D1	D2	D3	D4	D5	D6	2/3 Stages	L2	2/3 Stages	D7	D8	Version
PGR-3503 H	445.5	405	368	435	486	530	536.4/680	113	306/358	3/4-10 UNC-n°24	Ø21-n°24	В
PGR-6503 H	565.15	520.7	444.5	558.8	609.6	654	575	89	441,4	3/4-10UNC-n°30	Ø21-n°32	A/B
PGR-7503 H	565.15	520.7	444.5	487.7	527.8	576.5	661	114	502,4	M20-n°30	Ø21-n°32	A/B
PGR-7504 H	565.15	520.7	444.5	558.8	609.6	654	869.5	89	528	M24-n°31	Ø21-n°32	В
PGR-25003 H (**)	784	720	664	790.6	835	884	1,265.5	160	808,5	M30-n°30	Ø32-n°30	В

(**) Dual input.

Global Presence

Comer Industries operates in **the main world markets** with its own sales organization and it is present in major foreign countries with its own **sales subsidiaries** in the United States, Brazil, China, Germany, France and the United Kingdom.

In countries where there are not own branches, product distribution is carried out through an **international network of distributors and agents**. In Italy a direct sales network is operating.



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