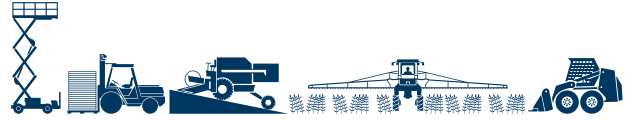


600 series Wheel drives



Bonfiglioli 600 series represent the best solution when you are designing a wheeled for harvester or construction machine. With a compact design, high torque and load capacities, a negative multidisc parking brake and, an optional disengagement device to tow the vehicle in an emergency, these solutions perfectly match the application requirements.



Torque Range

3000 ... 85000 Nm

Gear Ratios

4.3 ... 153

Key Features

- Rotating housing flange with studs
- to fit wheels and drums
- Rugged design
- High torque capacity
- High load capacity
- Mechanical lifetime seals
- Compact design
- Optional mechanical gear disengagement on request

Applicable motors

- Cartridge axial piston hydraulic motors
- Flanged axial piston hydraulic motors
- Hydraulic orbit motors
- DC electric motors

Brake

- Hydraulically released parking brake on request

Type Torque (Nm)

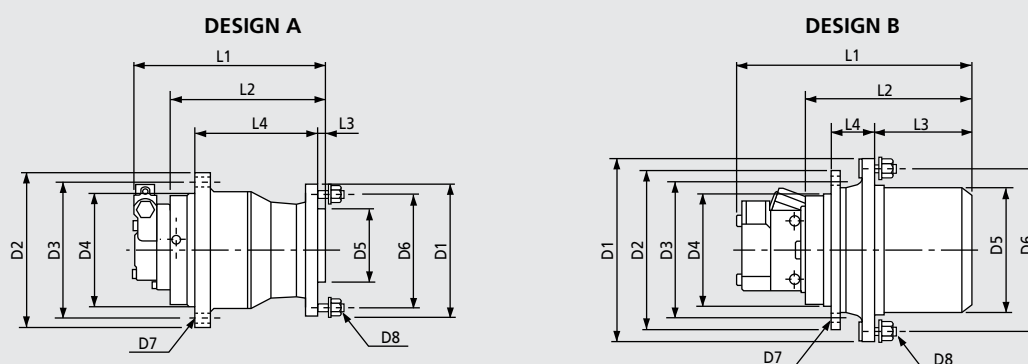
Type	Torque (Nm)
601 R1L	3000
603 W2..H	5000
603 W2V B	7000
605 W2V..	10000
606 W..V	17000
607 W2..B	22000
609 W2..B	30000
610 W..V	36000
610 X	40000
611 W..V	45000
613 W..V	60000
615 W..V	85000



Overall dimensions and technical data

TYPE	RANGE OF RATIOS	MAX. INPUT SPEED	HYDRAULIC MOTOR DRIVE ⁽¹⁾	BRAKING TORQUE	MIN. OPENING PRESSURE	WEIGHT	DESIGN
	1:			Nm	bar	kg	
601 R1	4.26 - 5.77	1000	LS	450 - 600	15 - 20	35	A
603 W2V H	19.5 - 40.5	4000	HS	170 - 250	15 - 20	45	B
603 W2L H	14 - 40.5	4000	HS	170 - 250	15 - 20	45	A
603 W2V B	21.6 - 53	4000	HS	170 - 250	15 - 20	45	B
605 W2 H	22.2 - 53	3500	HS	220 - 310	15 - 20	65	B
605 W2 B	22.2 - 53	3500	HS	220 - 300	15 - 20	65	B
606 W2	19.7 - 43.8	3500	HS	400 - 500	15 - 20	110	B
606 W3	68 - 128.6	3500	HS	300 - 350	15 - 20	120	B
607 W2..B	55-120	3000	HS	300 - 600	15 - 20	140	B
609 W2..B	55-147	3000	HS	300 - 600	15 - 20	170	B
610 W..V	55-123	3000	HS	300 - 800	15 - 20	200	B
610 X2	22.5-51.4	3000	HS	800 - 1200	15 - 20	200	B
611 W..V	41-47	3000	HS	300 - 800	15 - 20	250	B
613 W..V	108	3000	HS	300 - 800	15 - 20	250	B
615 W..V	108	3000	HS	300 - 1000	15 - 20	350	B

(1) LS = Low speed motor / HS = High speed motor



TYPE	D1	D2	D3	D4	D5	D6	D7	D8	L1	L2	L3	L4
601 R1L	230	260	230	200 h8	152,4	203,2	Ø15 n°8	M14x1.5 n°8	Depend on motor type	245	10	195
603 W2V H	280	270	230	190 f7	200 h8	241,3	M16x2 n°8	M18x1.5 n°9		236	128	72
603 W2L H	237	270	230	190 f7	160	205	M16x2 n°8	M18x1.5 n°6		249.5	25	175
603 W2V B	275	240	210	178 h8	200 h8	241,3	M16x2 n°9	M16x1.5 n°9		249	108	106
605 W2 H	300	270	230	190 f7	220 h8	260	M16x2 n°8	M16x1.5 n°8		240	154	72
605 W2 B	310	260	230	190 f7	220 h8	275	M16x2 n°12	M20x1.5 n°8		218	136	72
606 W2	370	330	300	270 h8	280 h8	335	M16x2 n°18	M22x1.5 n°10		270	155	115
606 W3	370	330	300	270 h8	280 h8	335	M16x2 n°18	M22x1.5 n°10		315	200	115
607 W2..B	400	317	285	240	300	355	M20x2.5 n°20	M18x1.5 n°20		335	233	82
609 W2..B	435	375	340	300	350	400	M20x2.5 n°16	M22x1.5 n°16		350	243	91
610 W..V	435	375	340	300	350	400	M20x2.5 n°16	M22x1.5 n°16		350	243	91
610 X2	440	410	370	330	360	400	M20x2.5 n°20	M20x2.5 n°16		383	268	90
611 W..V	490	425	325	290	410	455	M20x2.5 n°24	M20x1.5 n°24		375	242	110
613 W..V	490	425	325	280	410	455	M20x2.5 n°24	3/4-16 UNF n°24		405	275	110
615 W..V	550	500	460	420	460	510	M20x2.5 n°24	M20x1.5 n°24	470	320	130	

Wheel Drives with Integrated Service & Parking brakes.

600 series

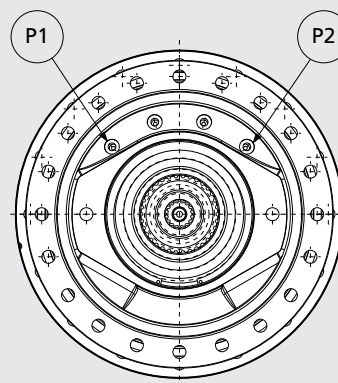
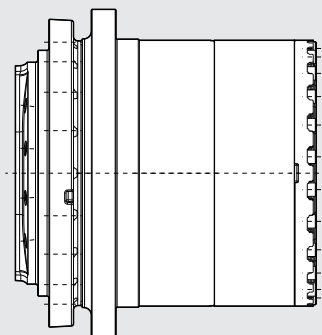
Wheel drives with integrated service & parking brakes

Typical applications

- Self-propelled Agricultural sprayer
- Combine harvester
- Potato, Carrot harvester
- Forage harvester

Features

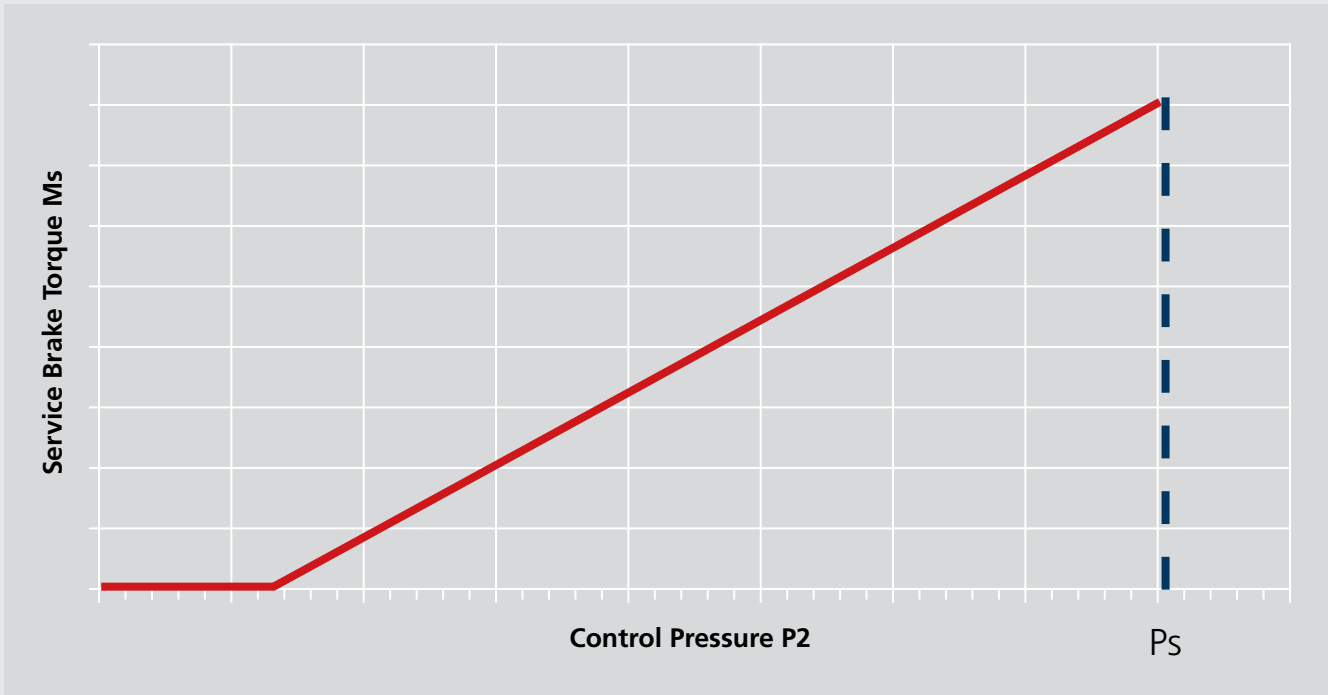
- Compact and modular design
- Compliant with international regulations for service, emergency and parking braking
- Improved modulability of service brake actuation
- Integrated oil immersed brake disc package
- Dedicated piston return system for optimized thermal performance (patent pending)
- Heavy duty discs to maximize thermal capacity for best energy dissipation also in extreme conditions



P1: static brake port
P2: service brake port

ACTION	P1 PORT	P2 PORT
Parking brake engaged	Not pressurized	Not pressurized
Travel	Pressurized	Not pressurized
Service braking	Pressurized	Pressurized (to modulate the braking torque)

Service Brake Performances



GEARBOX MODEL	SERVICE BRAKE		PARKING BRAKE	
	Max torque (Ms) Nm	Max operating pressure (Ps) bar	Max torque (Mp) Nm	Min release pressure (Pr) bar
605 W2	300	60	310	20
606 W2	350	90	650	20
607 W2	350	90	650	20
609 W2	450	90	800	20
610 X2	650	90	1200	20
611 W2	650	90	1200	20

The above data are just for reference only. To be verified based on actual machine data.

