

# NGC

## Rail Vehicle Gearboxes

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## About Us

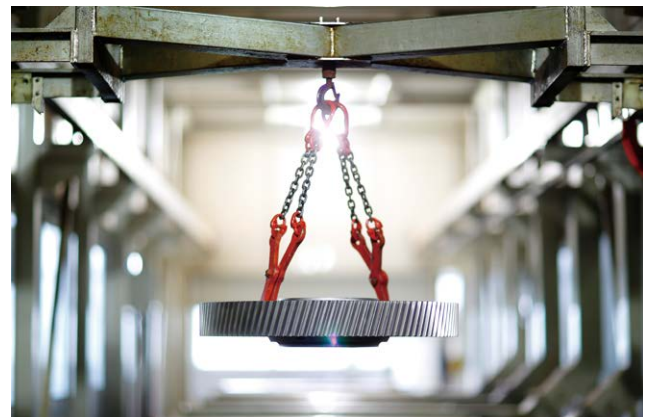
NGC Rail Vehicle Gearbox BU is dedicated to providing gearbox products, technology, and solutions for metro, tram-car, intercity train, high speed train and locomotive applications. Today, more than 20,000 rail vehicle gearboxes from NGC are working in vehicles all over the world, including but

not limited to China, North America, South America, Europe, Australia, Southeast Asia and Africa. Equipped with advanced facilities and testing devices, NGC strives to provide reliable, safe and low-noise products for our customers.





Working closely with customers all over the world, we produce high quality products using state of art manufacturing technology. Our in-depth knowledge, as well as our comprehensive global service network guarantee our customers safe and efficient operations.



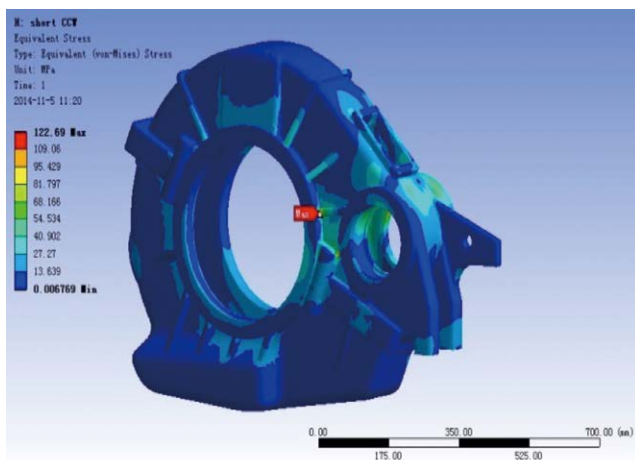




## NGC Benefits

With over 40 years' experience in drive technology, NGC has a wide range of expertise in gearbox development. We do everything to ensure the highest standards of safety and reliability: from concept design to gear strength analysis, gear modification, gear LTCA and FEA; from gearbox system simulation to noise calculation. Every step and detail is

carefully implemented – including raw materials, machining, heat treatment, assembly, detection, painting and delivery – to ensure that our products run flawlessly for the whole product life and create added value for customers.



FEA of main elements














Strict materials quality control and heat treatment process control



# NGC Products

NGC develops and delivers gearbox technology for metro, intercity train and tramcar applications. Our products are certified according to ISO9001, ISO14001, OHSAS18001,

IRIS, and meet mass production demand all over the world. NGC provides advanced high quality customized products.

		Center Distance	Ratio	Design Speed	Traction Torque	Short Circuit Torque
PSM348 series single-stage metro gearbox		348 mm	7.1	80 km/h	1,348 Nm	5,500 Nm
PSM352 series single-stage metro gearbox		352 mm	7.1	80 km/h	2,117 Nm	7,700 Nm
PSM355 series single-stage metro gearbox		355 mm	6.3	110 km/h	1,568 Nm	9,800 Nm
			6.3	90 km/h	1,583 Nm	9,800 Nm
			6.7	80 km/h	1,696 Nm	10,667 Nm
PDM370 series double-stage metro gearbox		370 mm	5.0	135 km/h	1,800 Nm	10,000 Nm
			5.5	100 km/h	1,582 Nm	10,000 Nm
			6.2	100 km/h	1,550 Nm	10,000 Nm
PDM385 series double-stage metro gearbox		385 mm	5.5	130 km/h	2,568 Nm	9,534 Nm
			6.4	80 km/h	1,655 Nm	10,000 Nm
			6.9	80 km/h	1,525 Nm	10,000 Nm
PDM400 series double-stage metro gearbox		400 mm	5.8	120 km/h	2,278 Nm	12,188 Nm
			7.4	80 km/h	1,200 Nm	7,700 Nm
PDM490 series double-stage metro gearbox		490 mm	6.9	90 km/h	1,690 Nm	10,000 Nm
PSM360 series single-stage intercity train gearbox		360 mm	6.3	120 km/h	1,536 Nm	10,000 Nm
PSM361 series single-stage intercity train gearbox		361 mm	5.3	120 km/h	1,547 Nm	12,483 Nm
			6.3	100 km/h	1,421 Nm	11,722 Nm
PSM363 series single-stage intercity train gearbox		363 mm	4.9	160 km/h	2,420 Nm	12,100 Nm

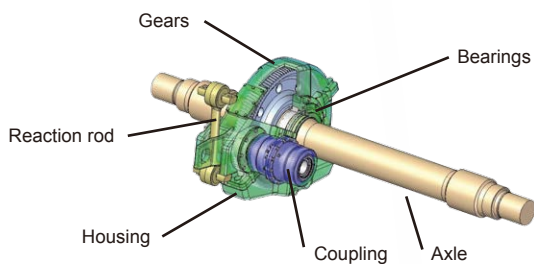


		Center Distance	Ratio	Design Speed	Traction Torque	Short Circuit Torque
PSM365 series single-stage intercity train gearbox		365 mm	5.9	100 km/h	2,108 Nm	10,540 Nm
PSM370 series single-stage intercity train gearbox		370 mm	4.1	160 km/h	2,072 Nm	9,500 Nm
			4.7	160 km/h	2,078 Nm	11,304 Nm
			6.3	90 km/h	1,550 Nm	10,000 Nm
PSM380 series single-stage intercity train gearbox		380 mm	5.7	176 km/h	2,300 Nm	15,500 Nm
PDM437 series double-stage intercity train gearbox		437 mm	4.2	160 km/h	1,710 Nm	9,500 Nm
PDM460 series double-stage intercity train gearbox		460 mm	5.3	132 km/h	1,750 Nm	11,300 Nm
VDT230 series tramcar gearbox		230 mm	7.9	80 km/h	884 Nm	3,000 Nm
VDT635.5 series tramcar gearbox		235 mm	6.0	80 km/h	962 Nm	3,400 Nm
VST469 series tramcar gearbox		—	5.6	90 km/h	1321 Nm	4,939 Nm
VDMS300 series monorail gearbox		300 mm	6.6	90 km/h	2,074 Nm	3,000 Nm
PSH370 high speed gearbox		370 mm	3.6	250 km/h	2650 Nm	11,500 Nm
Locomotive gears						

## NGC Services

NGC service teams consist of design engineers, application engineers, field engineers, and authorized service partners. We are prepared to offer our customers a fully optimized maintenance strategy, including troubleshooting, routine inspections, repairs, daily maintenance and training. Our service is there throughout the whole product life.

### Customized Products



### Spare Parts



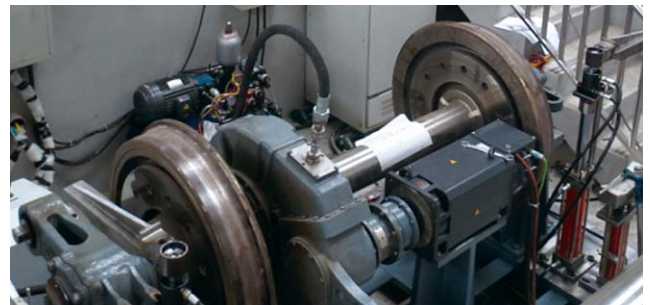
### Maintenance and Overhaul of Gearbox, Rod and Coupling



### Technical Support



### Maintenance Tools and Test Rig



## Contact Us

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