

**IMS:GEAR**

Part of the solution

**Driven by motion.**



**empower solutions** : worldwide

## Locations

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## Our Product Lines



Proven  
Quality

### IMS.Eco

Our plastic planetary gears from the Eco series combine efficiency with economy.



Convincing  
Power Packs

### IMS.Pro

Our metal planetary gears from the Pro series combine performance with robustness.



Motion  
that Inspires

### IMS.Drive

Our new Drive series, especially designed for the particular requirements of wheel drives.

**Discover now:** our **MAX** variants.  
For more power in less  
installation space.

# Technical Data

		Max. permissible drive torque* (operating factor $c_B = 1.0$ )	Recommended input speed	Radial load (10 mm from flange)*	Max. axial load
		1-3 stage		1-3 stage	
<b>Eco</b>	IMS.22 Eco <b>MAX</b>	0.2-0.6 Nm	6,000 rpm	15-45 N	30 N
	IMS.28 Eco <b>MAX LN</b>	0.4-2 Nm	3,000 rpm	15-45 N	5-15 N
	IMS.32 Eco	0.4-2 Nm	3,000 rpm	15-45 N	5-15 N
	IMS.33 Eco <b>MAX LN</b>	0.8-4 Nm	3,000 rpm	15-45 N	5-30 N
	IMS.42 Eco	0.8-4 Nm	3,000 rpm	15-45 N	5-30 N
	IMS.42 Eco <b>MAX LN</b>	2-10 Nm	3,000 rpm	200-450 N	60-150 N
<b>Pro</b>	IMS.22 Pro <b>MAX</b>	0.6-0.8 Nm	6,000 rpm	25-50 N	10-15 N
	IMS.28 Pro <b>MAX LN</b>	0.75-4.5 Nm	3,000 rpm	40-100 N	10-30 N
	IMS.32 Pro <b>LN</b>	0.75-4.5 Nm	3,000 rpm	40-100 N	10-30 N
	IMS.35 Pro <b>MAX LN</b>	3-15 Nm	3,000 rpm	160-300 N	50-110 N
	IMS.42 Pro <b>LN</b>	3-15 Nm	3,000 rpm	160-300 N	50-110 N
	IMS.45 Pro <b>MAX LN</b>	4-25 Nm	3,000 rpm	200-450 N	60-150 N
	IMS.52 Pro <b>LN</b>	4-25 Nm	3,000 rpm	200-450 N	60-150 N
	IMS.53 Pro <b>MAX LN</b>	8-50 Nm	3,000 rpm	240-520 N	70-150 N
	IMS.60 Pro <b>MAX LN</b>	14-84 Nm	3,000 rpm	320-760 N	70-160 N
	IMS.62 Pro <b>LN</b>	8-50 Nm	3,000 rpm	240-520 N	70-150 N
	IMS.71 Pro <b>MAX LN</b>	20-120 Nm	3,000 rpm	400-1.000 N	80-200 N
	IMS.72 Pro <b>LN</b>	14-84 Nm	3,000 rpm	320-760 N	70-160 N
	IMS.81 Pro <b>LN</b>	20-120 Nm	3,000 rpm	400-1.000 N	80-200 N
	IMS.88 Pro <b>MAX LN</b>	35-195 Nm	3,000 rpm	600-1.500 N	120-300 N
	IMS.105 Pro <b>LN</b>	35-195 Nm	3,000 rpm	600-1.500 N	120-300 N
IMS.120 Pro	50-300 Nm	3,000 rpm	600-1.500 N	120-300 N	

\*Higher requirements available on request.

$c_B = 1.0$ : constant direction of rotation, no shocks, operating time 3 hours per day

**Diameter**: as designated, e.g. IMS.22 Eco MAX with  $\varnothing 22$

**Operating temperature**: with Eco drives -15°C to +65°C; with Pro drives -30° to +120°C

**Bearing type output side**: Eco transmissions with sintered bearing, Pro transmissions with ball bearing

		Recommended wheel $\varnothing$	Load capacity per drive	Mass to be moved	Nominal speed vehicle
<b>Drive</b>	IMS.100 Drive <b>LN</b>	$\varnothing 140$ mm	100 kg	100 kg	3.0 m/s
	IMS.250 Drive <b>LN</b>	$\varnothing 160$ mm	100 kg	250 kg	1.5 m/s
	IMS.700 Drive <b>LN</b>	$\varnothing 180$ mm	330 kg	700 kg	1.5 m/s
	IMS.1000 Drive <b>LN</b>	$\varnothing 200$ mm	450 kg	1.000 kg	1.5 m/s

Different gear ratios available.

# Reduction Ratios

Current reduction ratios i rounded.

Pro	Pro LN	Pro	Pro LN	Pro	Pro LN
1-stage	1-stage	2-stage	2-stage	3-stage	3-stage
4:1 (3.71)	4:1 (3.65)	14:1 (13.73)	14:1 (13.53)	51:1 (50.89)	50:1 (50.16)
4:1 (4.29)	5:1 (4.59)	16:1 (15.88)	16:1 (15.65)	59:1 (58.86)	58:1 (58.01)
5:1 (5.18)	5:1 (5.36)	18:1 (18.37)	17:1 (17.00)	68:1 (68.07)	67:1 (67.08)
7:1 (6.75)	7:1 (6.55)	19:1 (19.20)	19:1 (18.92)	71:1 (71.16)	70:1 (70.13)
	9:1 (8.63)	22:1 (22.21)	23:1 (22.96)	79:1 (78.72)	81:1 (81.11)
	13:1 (13.20)	25:1 (25.01)	25:1 (24.65)	93:1 (92.70)	91:1 (91.36)
		27:1 (26.85)	28:1 (27.76)	95:1 (95.18)	98:1 (98.07)
		29:1 (28.93)	28:1 (28.05)	100:1 (99.51)	102:1 (101.89)
		35:1 (34.98)	34:1 (33.92)	107:1 (107.21)	106:1 (105.65)
		46:1 (45.56)	45:1 (44.69)	115:1 (115.08)	115:1 (114.77)
			58:1 (58.22)	124:1 (123.98)	123:1 (123.20)
			68:1 (68.40)	130:1 (129.62)	128:1 (127.74)
			89:1 (89.10)	139:1 (139.14)	137:1 (136.99)
				150:1 (149.90)	145:1 (145.36)
				169:1 (168.85)	166:1 (166.40)
				181:1 (181.25)	176:1 (175.75)
				195:1 (195.27)	192:1 (191.54)
				236:1 (236.10)	232:1 (231.59)
				308:1 (307.55)	302:1 (301.68)
					393:1 (392.98)
					462:1 (461.70)
					601:1 (601.43)

Reduction Ratio IMS.32 Pro LN is equal to IMS.32 Pro

**All specifications in this brochure are approximate values.**  
 Deviations are possible and may be caused by not standardized testing and measuring methods.  
 Please contact us directly for detailed information. Technical modifications are generally subject to change.  
 Please check our website [www.imsgea.com](http://www.imsgea.com) for the current status.



This is IMS Gear

## Your Partner to Move Forward

To put it matter-of-factly: we develop and manufacture specific **drive solutions** for our international customers. Apart from our focus on the automotive sector we concentrate on applications for the industry, medical engineering, and e-mobility concepts.

To put it emotionally: **we provide for motion** to make our partners move forward. Again and again.

We at IMS Gear take **customer proximity** literally. As our experience from the past decades has taught us: short distances are still major factors for success, and the best contact is the direct one.

This is why we think and act **internationally** and are present in all major global markets with own production locations.

# Find your IMS Gear



For **planetary gears** that perfectly match your **individual requirements**. (Almost) everything is possible. What is important for you? We have the solution.

- Performance
- Service life
- Noise and weight optimization
- Perfect interface design
- Free motor selection
- Optimum price-performance ratio

And this is only a selection from among the manifold options that are available for you with IMS Gear as a partner. Our **modular system** makes your applications come true – worldwide, quick, in large and small quantities, cost-efficient and with the extra bit of personal service.

Only available from IMS Gear.

Test it now:

