

Micro Planetary Gearbox W Series

*The Perpetual Motion
to Drive the World*



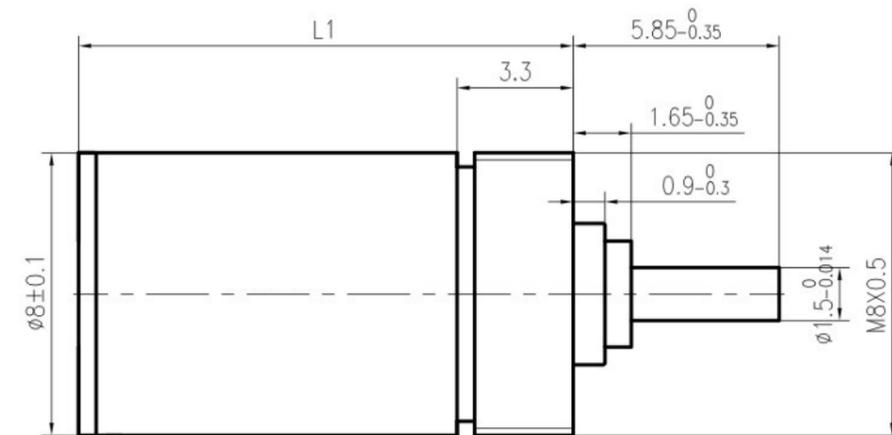
The Company

ACT industrial possesses expertise for the mastery of high precision motion technologies. The group company was established in the year of 2010. Now it employs over 830 staffs worldwide. ACT industrial specializes in the development, manufacturing and marketing of the following high precision motion brands product lines: Precision Planetary Gearbox and Pinion, Precision Spiral Bevel Gearbox, Ultra Precision Strain Wave Gear, Precision Planetary Roller Screw, Gearbox Wheel Solutions for AMRs and Precision Servo Motor Solutions. Our aims to be dedicated to serve global automation industrial clients with the reliable precision motion solutions.



W8 Micro Planetary Gearbox

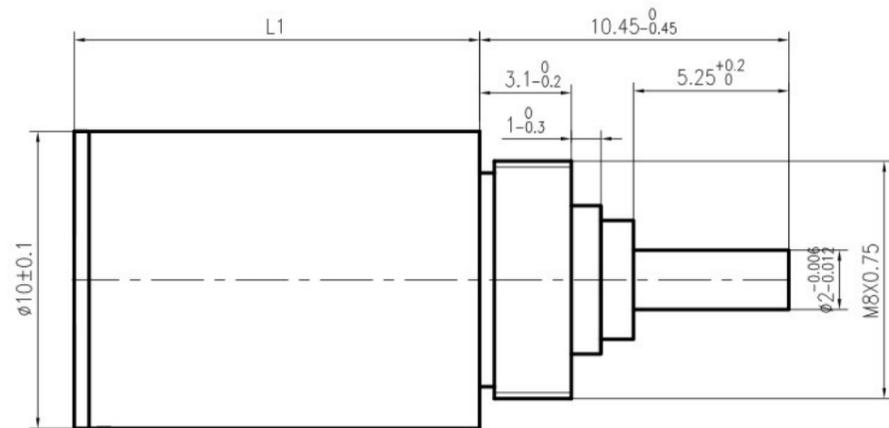
W8 Size



Stage		1	2	3	4
Ratio	i	4	16	64	256
Maximum motor shaft diameter	mm	1	1	1	1
Planetary gearbox Length L1	mm	9	11.5	14	16.5
Maximum transfer power (continuous)	W	0.84	0.52	0.39	0.13
Maximum transfer power (instantaneous)	W	1.05	0.65	0.49	0.16
Maximum continuous torque	Nm	0.01	0.02	0.06	0.08
Maximum instantaneous torque	Nm	0.015	0.03	0.09	0.12
Maximum input speed	rpm	12000	12000	12000	12000
maximum efficiency	%	90	80	73	65
No load mean return clearance	°	1.8	2	2.2	2.5
Rotational Inertia	gcm ²	0.004	0.004	0.004	0.004
Weight	g	3.6	4.3	4.8	5.5
Maximum axial load (dynamic)	N	5			
Maximum radial load (5mm from the flange)	N	10			
Recommended operating temperature	°C	-15~+80			
Optional extension range		-40~+90			

W10 Micro Planetary Gearbox

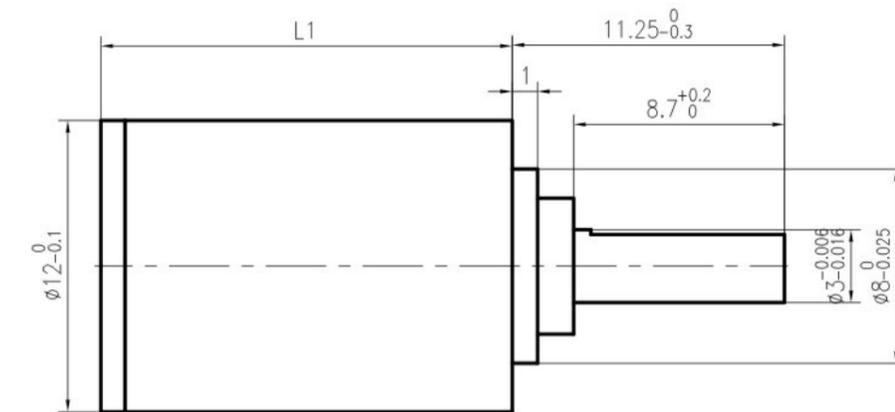
W10 Size



Stage		1	2	3	4
Ratio	i	4	16	64	256
Maximum motor shaft diameter	mm	1.5	1	1	1
Planetary gearbox Length L1	mm	8.9	11.8	14.7	17.6
Maximum transfer power (continuous)	W	1.6	1.2	1	0.4
Maximum transfer power (instantaneous)	W	2	1.5	1.3	0.5
Maximum continuous torque	Nm	0.01	0.03	0.1	0.15
Maximum instantaneous torque	Nm	0.02	0.05	0.15	0.2
Maximum input speed	rpm	12000	12000	12000	12000
maximum efficiency	%	90	80	73	65
No load mean return clearance	°	1.5	1.8	2	2.2
Rotational Inertia	gcm ²	0.005	0.005	0.005	0.005
Weight	g	6.7	7.3	7.8	8.2
Maximum axial load (dynamic)	N	5			
Maximum radial load (5mm from the flange)	N	20			
Recommended operating temperature	°C	-15~+80			
Optional extension range		-40~+90			

W12 Micro Planetary Gearbox

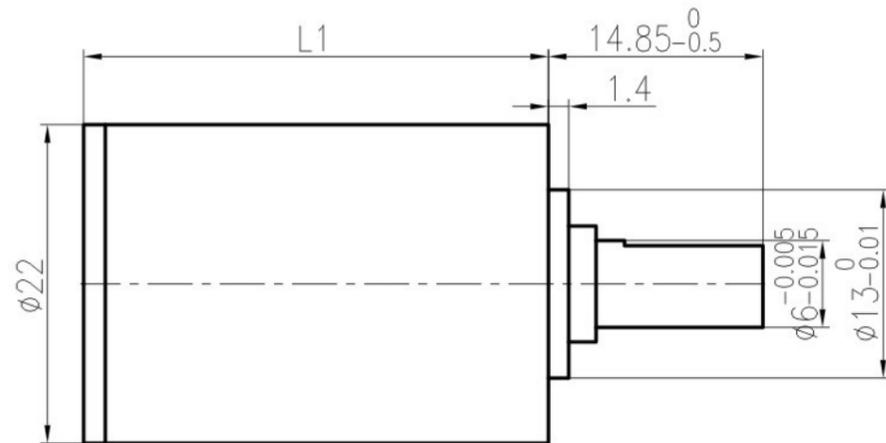
W12 Size



Stage		1	2	3	4
Ratio	i	3.9/5.3	16/21/26/28/35	62/83/103/ 111/138/150/ 172/186/231	243/326/406/ 439/546/590/ 679/734/794/ 913/1135
Maximum motor shaft diameter	mm	1.5	1	1	1
Planetary gearbox Length L1	mm	14.9	19	23.1	27.2
Maximum transfer power (continuous)	W	2	2.2	1.1	0.6
Maximum transfer power (instantaneous)	W	2.5	2.8	1.4	0.8
Maximum continuous torque	Nm	0.08	0.25	0.3	0.35
Maximum instantaneous torque	Nm	0.1	0.3	0.38	0.41
Maximum input speed	rpm	12000	12000	12000	12000
maximum efficiency	%	90	80	70	55
No load mean return clearance	°	1.2	1.5	1.8	2.1
Rotational Inertia	gcm ²	0.005	0.005	0.005	0.005
Weight	g	12	16	19	21
Maximum axial load (dynamic)	N	18			
Maximum radial load (5mm from the flange)	N	40			
Recommended operating temperature	°C	-15~+80			
Optional extension range		-40~+90			

W22 Micro Planetary Gearbox

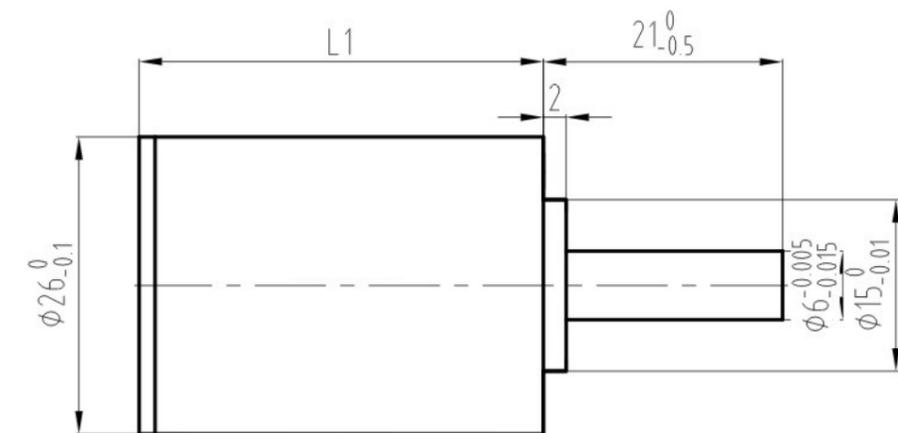
W22 Size



Stage		1	2	3	4
Ratio	i	3.9/5.3/6.6	16/21/26/ 28/35/44	62/83/103/ 111/138/150/ 172/186/231	243/326/406/ 439/546/590/ 679/734/794/ 913/1135
Maximum motor shaft diameter	mm	3	2	1.5	1.5
Planetary gearbox Length L1	mm	19.6	25.9	32.2	38.5
Maximum transfer power (continuous)	W	24	30	15	8
Maximum transfer power (instantaneous)	W	30	40	20	10
Maximum continuous torque	Nm	0.5	2.4	3.3	3.7
Maximum instantaneous torque	Nm	0.6	3	3.8	4.2
Maximum input speed	rpm	8000	8000	10000	12000
maximum efficiency	%	90	80	70	55
No load mean return clearance	°	0.85	1.05	1.2	1.35
Rotational Inertia	gcm ²	0.5	0.4	0.4	0.4
Weight	g	45	75	86	95
Maximum axial load (dynamic)	N	50			
Maximum radial load (5mm from the flange)	N	100			
Recommended operating temperature	°C	-15~+80			
Optional extension range	°C	-40~+90			

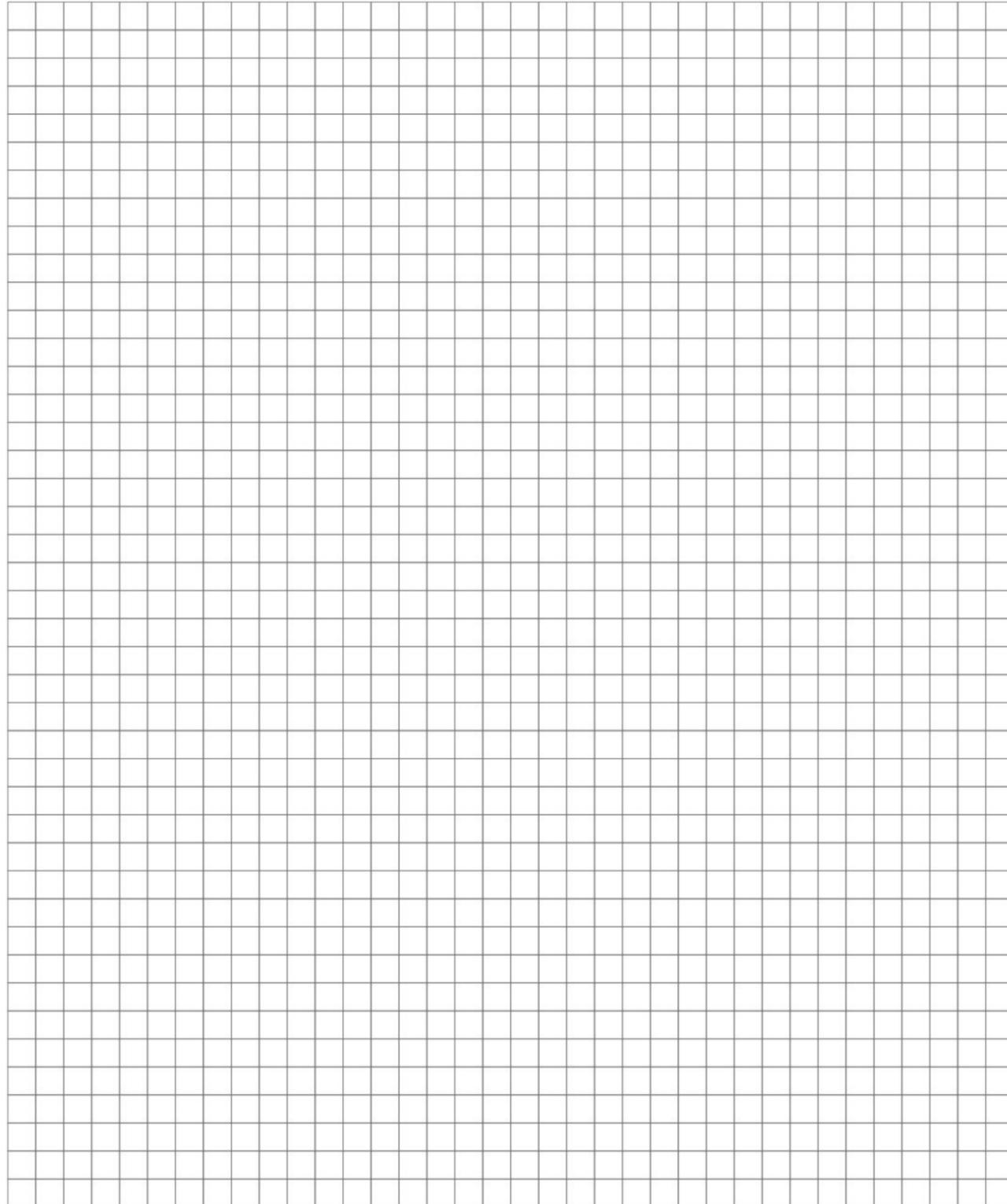
W26 Micro Planetary Gearbox

W26 Size

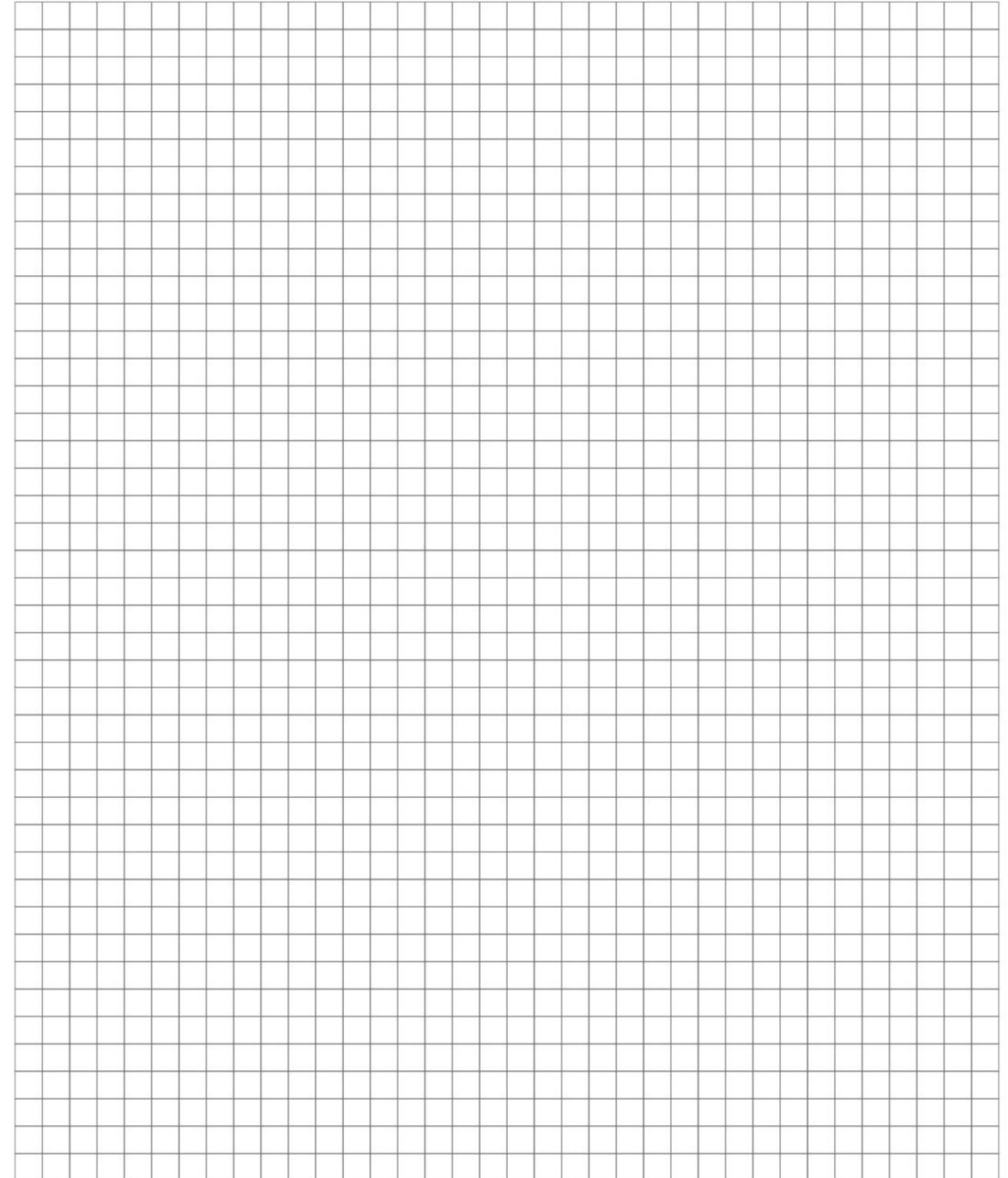


Stage		1	2	3	4
Ratio	i	3.9/5.3	16/21/26/28/35	62/83/103/ 111/138/150/ 172/186/231	243/326/406/ 439/546/590/ 679/734/794/ 913/1135
Maximum motor shaft diameter	mm	4	2	1.5	1.5
Planetary gearbox Length L1	mm	20.5	27.25	34	40.75
Maximum transfer power (continuous)	W	48	60	30	15
Maximum transfer power (instantaneous)	W	60	75	40	20
Maximum continuous torque	Nm	0.75	3	5	6.3
Maximum instantaneous torque	Nm	1.1	4	7	8
Maximum input speed	rpm	7000	7000	8000	10000
maximum efficiency	%	90	80	70	55
No load mean return clearance	°	0.75	0.95	1.1	1.3
Rotational Inertia	gcm ²	0.96	0.54	0.31	0.31
Weight	g	75	125	145	155
Maximum axial load (dynamic)	N	80			
Maximum radial load (5mm from the flange)	N	140			
Recommended operating temperature	°C	-15~+80			
Optional extension range	°C	-40~+90			

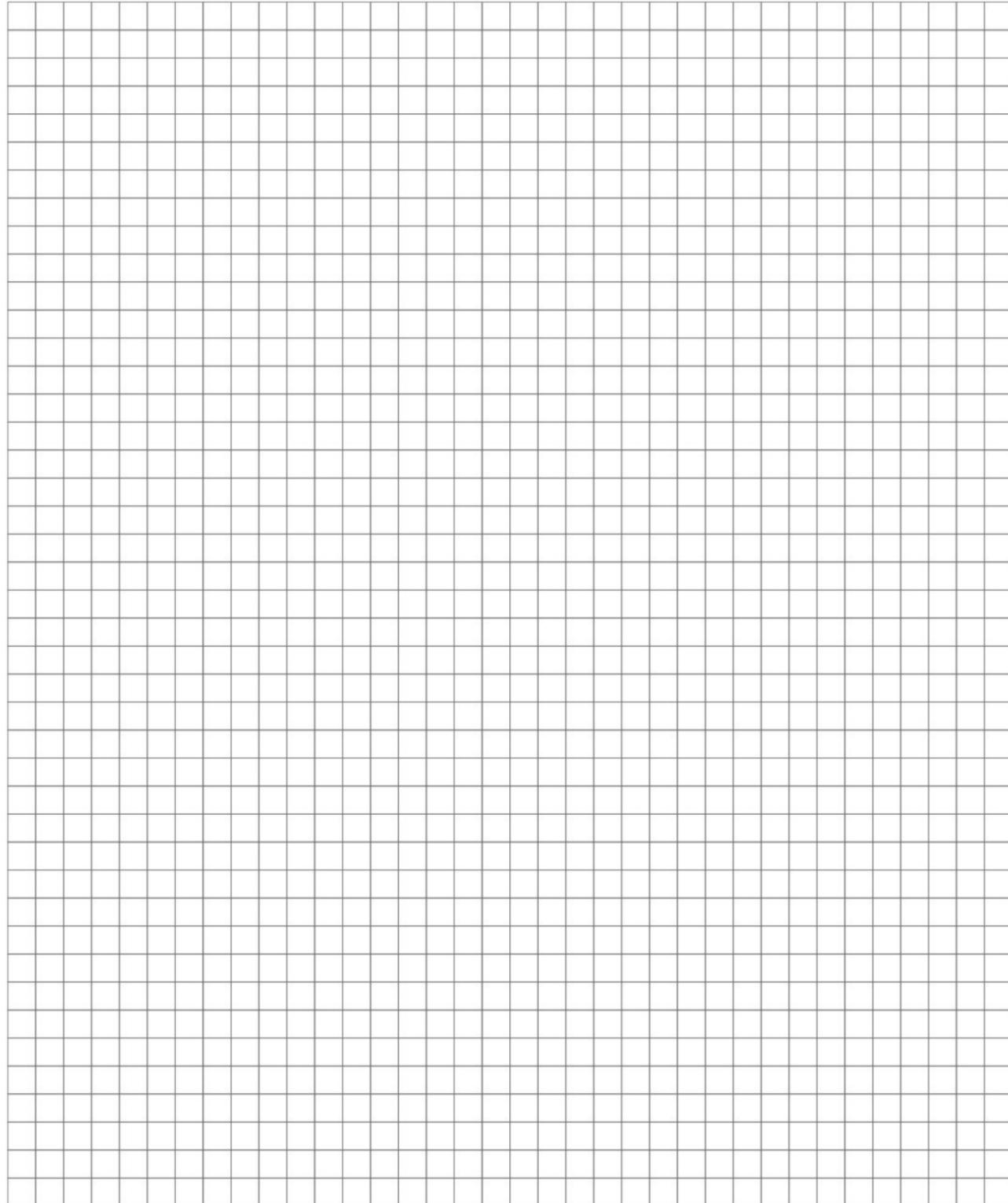
Technical Memo



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