

onvio

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Planetary Reducer

AD

NEW Onvio AD Reducer

Onvio's revolutionary, modular approach to gearbox design has resulted in our NEW AD planetary reducer. The new series features our highest precision gearing in a sleek, steel housing that offers drop in dimensions for many of today's brands. In addition, we offer backlash as low as 3 arc-minutes making the AD series ideal for today's high dynamic servo applications.

Size	U/M	AD-010		AD-020		AD-030			
		Ratio	Rated TN	Peak TP	Rated TN	Peak TP	Rated TN	Peak TP	
Output Torque	Nm	1 stage	4	30	60	96	192	192	384
			5	27	54	90	180	200	400
			7	32	64	70	140	175	350
			9	20	40	72	144	117	234
	2 stage	16	31	62	96	192	192	384	
		20	27	54	100	200	200	400	
		28	32	64	70	140	175	350	
		36	19	38	67	135	117	234	
		40	30	60	96	192	192	384	
50		27	54	100	200	200	4000		
		70	31	62	70	140	175	350	
		90	19	38	67	135	117	234	
Backlash	j t	arc min	1 stage	Standard ≤ 6		Reduced ≤ 3			
			2 stage	Standard ≤ 8		Reduced ≤ 5			
Continuous Input Speed	n1cont	RPM	3000		3000				
Maximum Input Speed	n1max	RPM	6000		6000				
Maximum Radial Load	Fr 2 max	N	1100		1500				
Maximum Axial Load	Fa 2 max	N	550		750				
Efficiency	η	%	1 stage	96					
			2 stage	94					
Temperature Range		°C	-10°C to 90°C						
Noise (Measured @ 3000 rpm)		dB(A)	≤ 69						
Life	Lh	h	>15,000						
Lubrication			Grease		Oil				
Orientation			Any						

About Onvio

Onvio headquarters are located in Salem, NH in a new 45,000 square foot world-class manufacturing facility. With additional manufacturing in Puebla, Mexico and operations in Germany, we stand ready to serve our customers globally, with the right product—on time. You can count on it.

Visit www.onvioilc.com to download 2D or 3D drawing files.

PRECISE

- Low Backlash
- High Shock Load Capacity
- Exceptional Torsional Stiffness
- Rigid Bearing Construction
- Smooth, Quiet Operation

INTELLIGENT

- Slotted Interface Offers Quick and Easy Installation to Any Servo Motor
- Single or Two Stages of gearing offers a wide range of ratios
- Highest Degree of Exchangeability with Other Reducers
- Add a Right Angle or Belt Stage With Four Bolts!

DYNAMIC

- Hardened, Ground Gears
- Low Inertia
- High Safety Factor
- Input Speeds to 6000 rpm
- Housing can be Made of Steel, Aluminum, or Stainless Steel



Universal Mount

AD offers interchangeability to many brands

High Torsional Stiffness

Contact of three planetary gears in the steel crown gear along with a large diameter output, provide outstanding rigidity

High Capacity Output Bearings

Two output bearings, located forward in the gearbox result in higher bearing capacity and longer bearing life

Low Backlash

Hardened, ground gears guarantee low backlash — down to 3 arc minutes

Universal Servo Interface

Flexible slotted bolt circle and oversized pilot allow for easy motor installation and no adapters

Floating pilot and high capacity input bearings guarantee alignment between motor and gearbox

