

HarmonicPlanetary® HPN-RA

Size

11, 14, 20, 32, 40

5

Sizes

Peak Torque

9Nm ~ 752Nm

Ratio

Single Stage: 3 ~ 10
Double Stage: 15 ~ 50

Backlash

Single Stage: <6
Double Stage: <9

Efficiency

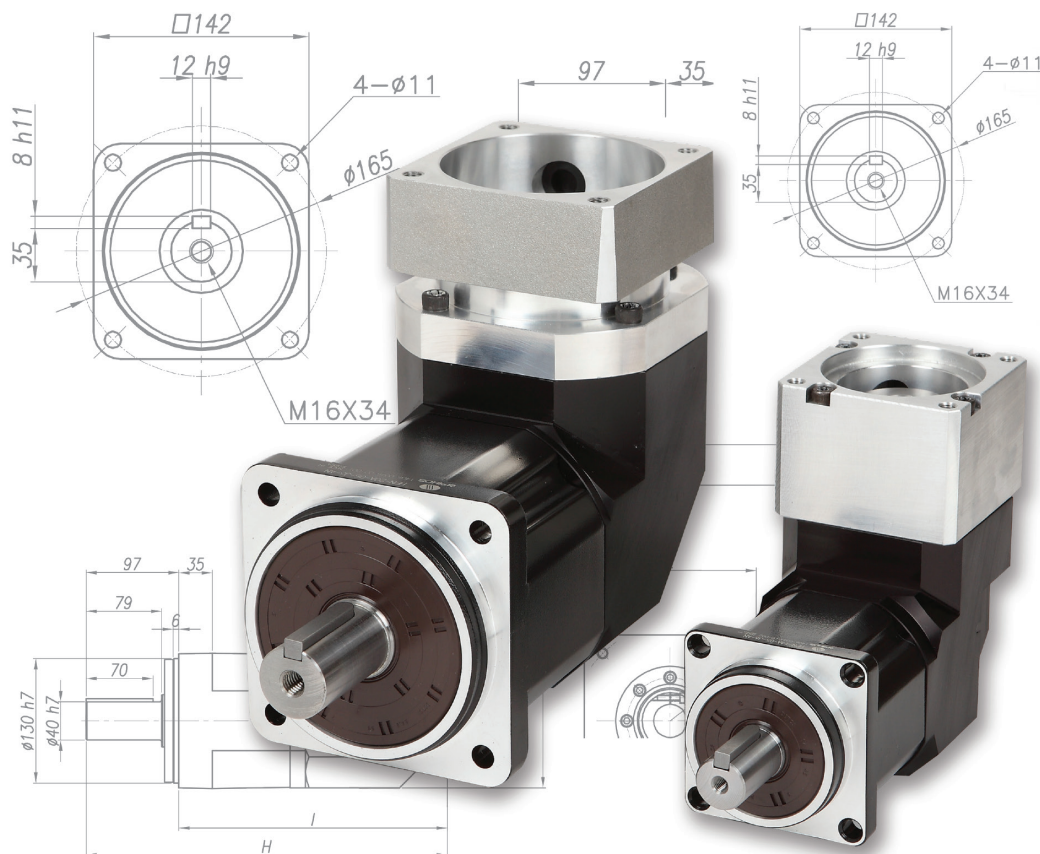
Single Stage: 93%
Double Stage: 90%



NEW!

HarmonicDrive®

- Spiral bevel right angle gear set with planetary output
- Grease lubricated for life
- Competitive price levels with short lead times
- Available with either HPN-A servo mount or HPN-L face mount planetary stage



HPN-RA Right Angle Planetary Gearhead Rating Table

Size	Number of stages	Ratio	Rated Torque	Limit for repeated peak torque	Limit for momentary torque	Backlash	Max. input speed	Rated input speed
			Nm	Nm	Nm	arc-min	rpm	rpm
11	1	4	14	14	40	<9	10,000	
		5	14	16	40	<8		
		7	11	11	40	<7		
		10	9	9	40			
14	1	3	21	21	78	<6	6,000	
		4	28	28	104			
		5	29	35	107			
		7	30	37	100			
	2	10	18	18	79	<9		
		15	30	43	97			
		20	30	49	100			
		25	30	38	102			
		30	40	48	98			
		35	40	49	99			
		40	30	38	100			
		45	30	38	100			
	50	26	26	94				
20	1	3	45	45	147	<6	6,000	
		4	60	60	196			
		5	75	75	245			
		7	80	105	256			
		10	54	54	216			
	2	15	80	105	256	<9		
		20	80	140	256			
		25	80	114	256			
		30	80	139	250			
		35	80	112	256			
		40	80	112	256			
		45	80	112	256			
		50	75	75	216			
32	1	3	84	84	288	<6	6,000	
		4	112	112	384			
		5	139	139	480			
		7	195	195	625			
		10	185	185	625			
	2	15	200	225	625	<9		
		20	200	297	625			
		25	200	371	625			
		30	250	376	625			
		35	250	376	625			
		40	300	376	625			
		45	300	376	625			
		50	251	251	625			
40	1	3	186	186	1104	<6	6,000	
		4	245	245	1265			
		5	310	310	1265			
		7	430	430	829			
		10	480	509	829			
	2	15	417	417	1265	<9		
		20	555	555	1265			
		25	650	694	1127			
		30	650	752	1265			
		35	700	752	1127			
		40	700	752	1127			
		45	700	752	1127			
		50	562	562	1162			