



Specifications

High Performance Right Angle Planetary Reducer Summary Specifications

Frame Size	Efficiency Range	Ratio Range	Input Power		Output Torque at 1400 RPM		Output Speed
			HP	kw	in-lbs	Nm	rpm
RA26/PL52i 1-Stage	46-68	67.5:1-405:1	0.08	0.06	221	25	3.5-20.7
RA26/PL52i 2-Stage	43-64	289.3:1-2734:1	0.08	0.06	221	25	0.5-4.8
RA26/PL62i 1-Stage	46-68	67.5:1-405:1	0.08-0.12	0.06-0.09	248-354	28-40	3.5-20.7
RA26/PL62i 2-Stage	43-64	289.3:1-2734:1	0.08	0.06	443	50	0.5-4.8
RA30/PL81i 1-Stage	56-80	67.5:1-405:1	0.12-0.24	0.09-0.18	496-708	56-80	3.5-20.7
RA30/PL81i 2-Stage	40-64	289.3:1-2734:1	0.08-0.12	0.06-0.09	929-1062	105-120	0.5-4.8

Input Power	Input PRM	Output RPM	Output Torque		Service Factor	Ratio	Efficiency %	Frame Size	
			in-lbs	Nm					
0.08HP	0.06kw	1400	20.7	221	25	1.0	67.5:1	68	RA26/PL52i 1-Stage
			13.8	221	25	1.0	101.3:1	64	
			10.4	221	25	1.0	135:1	62	
			6.9	221	25	1.0	202.5:1	56	
			5.2	221	25	1.0	270:1	52	
			4.1	221	25	1.0	337.5:1	48	
			3.5	221	25	1.0	405:1	46	RA26/PL52i 2-Stage
			4.8	221	25	1.0	289.3:1	64	
			3.2	221	25	1.0	434:1	60	
			2.4	221	25	1.0	578.6:1	58	
			1.6	221	25	1.0	867.9:1	53	
			1.2	221	25	1.0	1157:1	49	
			1.0	221	25	1.0	1447:1	45	
			0.8	221	25	1.0	1736:1	43	
			0.7	221	25	1.0	2098:1	43	
			0.5	221	25	1.0	2734:1	43	



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Input Power		Input PRM	Output RPM	Output Torque		Service Factor	Ratio	Efficiency %	Frame Size
				in-lbs	Nm				
0.12HP	0.09kw	1400	20.7	248	28	1.4	67.5:1	68	RA26/PL62i 1-Stage
			13.8	354	40	1.0	101.3:1	64	
			10.4	300	34	1.2	135:1	62	
0.08HP	0.06kw	1400	6.9	354	40	1.0	202.5:1	56	RA26/PL62i 1-Stage
			5.2	354	40	1.0	270:1	52	
			4.1	354	40	1.0	337.5:1	48	
			3.5	354	40	1.0	405:1	46	
			4.8	443	50	1.0	289.3:1	64	
			3.2	443	50	1.0	434:1	60	
		RA26/PL62i 2-Stage	2.4	443	50	1.0	578.6:1	58	
			1.6	443	50	1.0	867.9:1	53	
			1.2	443	50	1.0	1157:1	49	
			1.0	443	50	1.0	1447:1	45	
			0.8	443	50	1.0	1736:1	43	
			0.7	443	50	1.0	2098:1	43	
			0.5	443	50	1.0	2734:1	43	

Input Power		Input PRM	Output RPM	Output Torque		Service Factor	Ratio	Efficiency %	Frame Size
				in-lbs	Nm				
0.24HP	0.18kw	1400	20.7	496	56	1.4	67.5:1	56	RA30/PL81i 1-Stage
			13.8	699	79	1.0	101.3:1	79	
0.17HP	0.13kw	1400	10.4	646	73	1.0	135:1	73	RA30/PL81i 1-Stage
0.12HP	0.09kw	1400	6.9	584	66	1.2	202.5:1	66	RA30/PL81i 1-Stage
			5.2	708	80	1.0	270:1	80	
			4.1	708	80	1.0	337.5:1	80	
			3.5	708	80	1.0	405:1	80	
			4.8	1,000	113	1.1	289.3:1	64	
0.08HP	0.06kw	1400	3.2	929	105	1.1	434:1	59	RA30/PL81i 2-Stage
			2.4	1,062	120	1.0	578.6:1	57	
			1.6	1,062	120	1.0	867.9:1	50	
			1.2	1,062	120	1.0	1157:1	45	
			1	1,062	120	1.0	1447:1	43	
			0.8	1,062	120	1.0	1736:1	40	
			0.7	1,062	120	1.0	2098:1	40	
			0.5	1,062	120	1.0	2734:1	40	



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Frame Size	Efficiency Range	Ratio Range	Input Power		Output Torque at 1400 RPM		Output Speed rpm
			HP	kw	in-lbs	Nm	
RP73 1-Stage	45-82	5:1-10:1	0.05-0.24	0.04-0.18	5-89	0.6-10	140-280
RP73 2-Stage	40-84	15:1-61:1	0.05-0.24	0.04-0.18	15-381	2-43	23-93
RP73 3-Stage	51-73	90:1-377:1	0.05-0.12	0.04-0.09	126-566	14-64	4-16

Input Power		Input PRM	Output RPM	Output Torque		Service Factor	Ratio	Efficiency %	Frame Size
				in-lbs	Nm				
0.05HP	0.04kw	1400	280	5	0.6	1.0	5	45	RP73 1-Stage
			140	12	1	1.0	10	50	
			93	15	2	1.0	15	40	RP73 2-Stage
			70	23	3	1.0	20	49	
			47	34	4	1.0	30	47	
			35	62	7	1.0	40	64	
			23	95	11	1.0	61	65	RP73 3-Stage
			16	126	14	1.0	90	68	
			12	162	18	1.0	120	56	
			9	241	27	1.0	160	62	
			8	227	26	1.0	184	51	
			6	344	39	1.0	264	58	
4	519	59	1.0	377	57				



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Input Power	Input PRM	Output RPM	Output Torque		Service Factor	Ratio	Efficiency %	Frame Size				
			in-lbs	Nm								
0.08HP	0.06kw	1400	280	10	1	1.0	5	55	RP73 1-Stage			
			140	22	2	1.0	10	62				
			93	30	3	1.0	15	55	RP73 2-Stage			
			70	44	5	1.0	20	61				
			47	73	8	1.0	30	67				
			35	102	12	1.0	40	70				
						23	162	18	1.0	61	73	RP73 3-Stage
						16	220	25	1.0	90	68	
						12	289	33	1.0	120	67	
						9	389	44	1.0	160	67	
			8	404	46	1.0	184	61				
			6	566	64	1.0	264	64				

Input Power	Input PRM	Output RPM	Output Torque		Service Factor	Ratio	Efficiency %	Frame Size				
			in-lbs	Nm								
0.12HP	0.09kw	1400	280	17	2	1.0	5	64	RP73 1-Stage			
			140	38	4	1.0	10	70				
			93	54	6	1.0	15	66	RP73 2-Stage			
			70	79	9	1.0	20	72				
			47	127	14	1.0	30	78				
			35	163	18	1.0	40	75				
						23	257	29	1.0	61	78	RP73 3-Stage
						16	355	40	1.0	90	73	
						12	462	52	1.0	120	71	

Input Power	Input PRM	Output RPM	Output Torque		Service Factor	Ratio	Efficiency %	Frame Size			
			in-lbs	Nm							
0.17HP	0.13kw	1400	280	28	3	1.0	5	70	RP73 1-Stage		
			140	61	7	1.0	10	77			
			93	89	10	1.0	15	76	RP73 2-Stage		
			70	125	14	1.0	20	79			
			47	192	22	1.0	30	82			
			35	246	28	1.0	40	78			
						23	381	43	1.0	61	80

Input Power	Input PRM	Output RPM	Output Torque		Service Factor	Ratio	Efficiency %	Frame Size	
			in-lbs	Nm					
0.24HP	0.18kw	1400	280	41	5	1.0	5	75	RP73 1-Stage
			140	89	10	1.0	10	82	
			93	133	15	1.0	15	82	RP73 2-Stage
			70	182	21	1.0	20	84	
			47	271	31	1.0	30	83	
			35	350	40	1.0	40	80	