

# YNT SERIES SINGLE STAGE SCREW AIR ENDS



PROCESSED BY GERMAN KAPP GRINDING MACHINE

BELT DRIVEN								
Model	Discharge Pressure MPa	Power Consumption of the Oil kW						
		0.7	0.8	1	1.25	1.3	1.5	
YNT40RA	1.65~3.0	Rotate Speed RPM	3000~5760	2850~5360	2310~4640		2880~3860	
		Flow Rate m <sup>3</sup> /min	0.223~0.548	0.206~0.505	0.142~0.39		0.188~0.29	
		Oil Injection Quantity L/min	3.7~6.3	3.8~6.3	3.9~6.6		5.1~6.8	
		Shaft Power kW	2.5~4.4					
YNT44RA	2.6~3.5	Rotate Speed RPM	3400~4200	3350~4050	2900~3500	2600~3000		
		Flow Rate m <sup>3</sup> /min	0.43~0.59	0.39~0.56	0.34~0.44	0.3~0.34		
		Oil Injection Quantity L/min	4.5~6.0	4.6~6.1	4.7~6.3	4.8~6.4		
		Shaft Power kW	3.3~4.4					
YNT46	2.7~4.7	Rotate Speed RPM	3430~5820	3230~5450	2900~4750	2570~4050		
		Flow Rate m <sup>3</sup> /min	0.43~0.83	0.4~0.76	0.36~0.6	0.3~0.46		
		Oil Injection Quantity L/min	4.7~8.0	4.7~8.1	4.8~8.4	4.9~8.6		
		Shaft Power kW	3.4~5.9					
YNT46A	4.7~6.4	Rotate Speed RPM	5820~6750	5450~6520	4750~6300	4050~5400		
		Flow Rate m <sup>3</sup> /min	0.83~1	0.76~0.93	0.60~0.81	0.46~0.63		
		Oil Injection Quantity L/min	8.0~11.1	8.1~11.2	8.4~11.4	8.6~11.7		
		Shaft Power kW	5.9~8					
YNT55A	6.6~12.8	Rotate Speed RPM	3800~6900	3500~6350	2950~5400	2450~4500	2000~3800	
		Flow Rate m <sup>3</sup> /min	1.15~2.09	1.06~2	0.85~1.62	0.7~1.3	0.48~1	
		Oil Injection Quantity L/min	11.2~22.0	11.4~22.1	11.7~22.8	12.0~23.3	12.3~23.8	
		Shaft Power kW	8.25~16					
YNT60A	6.6~9.4	Rotate Speed RPM	3230~4550	2950~4260	2400~3470	1850~2680		1350~2000
		Flow Rate m <sup>3</sup> /min	1.15~1.65	1.06~1.53	0.85~1.23	0.65~0.97		0.46~0.68
		Oil Injection Quantity L/min	11.2~16.0	11.4~16.2	11.7~16.7	12.1~17.2		12.4~17.7
		Power Consumption of the Oil kW	8.25~11.8					

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Model	Discharge Pressure MPa	Power Consumption of the Oil kW						
		0.7	0.8	1	1.25	1.3	1.5	
YNT70A	9.9~15.6	Rotate Speed RPM	3250~5250	2950~4630	2630~4150	2180~3430		1670~2650
		Flow Rate m <sup>3</sup> /min	1.91~2.94	1.71~2.61	1.47~2.3	1.18~1.86		0.92~1.46
		Oil Injection Quantity L/min	16.5~26.1	16.9~26.7	17.3~27.2	17.8~27.9		18.2~28.6
		Shaft Power kW	12.4~19.5					
YNT70B	13.2~19.2	Rotate Speed RPM	3250~4550	2950~4200	2580~3670	2150~3100		1640~2450
		Flow Rate m <sup>3</sup> /min	2.52~3.52	2.27~3.23	1.98~2.82	1.6~2.3		1.22~1.8
		Oil Injection Quantity L/min	22.0~32.3	22.5~32.8	23.0~33.5	23.6~34.4		24.2~35.2
		Shaft Power kW	16.5~24					
YNT80A	13.0~26.8	Rotate Speed RPM	2470~5090	2280~4670	2050~4300	1710~3480		1370~2840
		Flow Rate m <sup>3</sup> /min	2.41~4.9	2.22~4.5	1.91~4.02	1.56~3.26		1.21~2.51
		Oil Injection Quantity L/min	21.9~45.1	22.2~45.8	22.8~46.6	23.4~47.9		23.9~49.2
		Shaft Power kW	16.3~33.5					

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BELT DRIVEN							
Model	Discharge Pressure MPa Power Consumption of the Oil kW	Discharge Pressure MPa					
		0.7	0.8	1	1.25	1.5	
YNE117RA	16.0~26.4	Rotate Speed RPM	2810~4630	2560~4190	2270~3740	1930~3100	1570~2600
		Flow Rate m <sup>3</sup> /min	3.2~5.3	2.87~4.7	2.5~4.1	2.0~3.35	1.6~2.7
		Oil Injection Quantity L/min	26.5~43.7	27.0~44.7	27.7~45.7	28.5~47.0	29.2~48.0
		Shaft Power kW	20~33				
YNE133RA	26.4~40.0	Rotate Speed RPM	3050~4500	2820~4200	2500~3800	2100~3150	1850~2700
		Flow Rate m <sup>3</sup> /min	5.35~7.8	4.8~7.25	4.2~6.3	3.52~5.3	2.8~4.3
		Oil Injection Quantity L/min	43.6~66.5	44.5~67.5	45.5~69.1	46.7~70.8	47.9~72.4
		Shaft Power kW	33~55				
YNE143RA	32.8~48.8	Rotate Speed RPM	3200~4700	2950~4250	2520~3750	2150~3300	1800~2700
		Flow Rate m <sup>3</sup> /min	6.6~9.7	6~8.8	5.1~7.5	4.2~6.2	3.3~5.1
		Oil Injection Quantity L/min	54.2~80.9	55.2~82.4	56.7~84.6	58.3~86.8	59.8~88.6
		Shaft Power kW	41~61				
YNE143RB	40.0~66.0	Rotate Speed RPM	3350~5400	3050~4950	2700~4400	2250~3800	1900~3150
		Flow Rate m <sup>3</sup> /min	8.2~13.2	7.4~12	6.3~10.2	5.2~8.5	4.1~7
		Oil Injection Quantity L/min	65.9~109.2	67.2~111.3	69.1~114.3	70.9~117.2	72.8~119.7
		Shaft Power kW	50.0~82.5				
YNE163RA	48.8~66.0	Rotate Speed RPM	3150~4250	2950~3900	2600~3500	2200~3000	1850~2550
		Flow Rate m <sup>3</sup> /min	9.9~13.2	9.25~12.3	8~10.7	6.6~9.1	5.5~7.4
		Oil Injection Quantity L/min	80.5~109.2	81.6~110.7	83.7~113.5	86.1~116.2	88.0~119.0
		Shaft Power kW	61.0~82.5				

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Model	Discharge Pressure MPa Power Consumption of the Oil kW	Discharge Pressure MPa						
		0.7	0.8	1	1.25	1.5	1.7	
YNE117RA	13.0~34.4	Rotate Speed RPM	2200~3570					
		Flow Rate m <sup>3</sup> /min	2.47~4.09	2.44~4.00	2.40~3.93	2.30~3.75	2.20~3.60	
		Oil Injection Quantity L/min	21.7~33.3	24.1~37.1	27.9~43.1	33.1~51.2	40.3~62.5	
		Shaft Power kW	16.2~25.2	17.7~27.5	20.0~31.2	23.2~36.1	27.6~43.0	
YNE133RA	18.8~50.4	Rotate Speed RPM	2200~3570					
		Flow Rate m <sup>3</sup> /min	3.75~6.15	3.7~6.06	3.6~6.0	3.5~5.7	3.3~5.5	
		Oil Injection Quantity L/min	31.1~47.8	34.4~53.6	39.4~61.6	47.5~74.9	58.1~91.1	
		Shaft Power kW	23.5~36.5	25.5~40.0	28.5~45.0	33.5~53.0	40.0~63.0	
YNE143RA	21.8~61.6	Rotate Speed RPM	2200~3570					
		Flow Rate m <sup>3</sup> /min	4.5~7.5	4.4~7.4	4.4~7.3	4.2~7	4.05~6.7	
		Oil Injection Quantity L/min	35.9~59.4	40.2~66.4	46.6~77.1	55.2~91.6	67.4~111.4	
		Shaft Power kW	27.3~45.2	29.9~49.5	33.9~56.1	39.1~64.9	46.6~77.0	
YNE143RB	25.6~71.2	Rotate Speed RPM	2200~3570					
		Flow Rate m <sup>3</sup> /min	5.3~8.8	5.2~8.70	5.10~8.50	4.9~8.1	4.7~7.8	
		Oil Injection Quantity L/min	42.1~68.8	47.0~76.8	54.4~89.3	65.1~105.9	78.9~128.7	
		Shaft Power kW	32.0~52.4	35.0~57.4	39.5~65.0	46.0~75.0	54.5~89.0	
YNE163RA	28.2~104.8	Rotate Speed RPM	1780~3570					
		Flow Rate m <sup>3</sup> /min	5.5~11.16	5.4~11.04	5.35~10.91	5.20~10.63	5.10~10.27	4.9~9.91
		Oil Injection Quantity L/min	46.8~92.4	50.7~99.4	57.1~113.3	67.7~134.3	80.7~160.2	96.9~192.1
		Shaft Power kW	35.2~69.8	37.5~74.1	41.5~82.6	48.0~95.5	56.0~111.4	66.0~131.0
YNE178RA	29.7~135.5	Rotate Speed RPM	1480~3570					
		Flow Rate m <sup>3</sup> /min	5.87~14.45	5.82~14.33	5.75~14.15	5.55~13.67	5.29~13.01	5.09~12.54
		Oil Injection Quantity L/min	49.3~123.4	54.1~135.4	62.1~155.4	71.9~179.9	85.0~212.5	99.5~248.8
		Shaft Power kW	37.1~92.7	40.1~100.1	45.0~112.5	51.0~127.3	58.9~147.1	67.8~169.3

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Model	Power Consumption of the Oil kW	Discharge Pressure MPa						
		0.7	0.8	1	1.25	1.5	1.7	
YNE178RB	35.6~163.2	Rotate Speed RPM	1480~3570					
		Flow Rate m³/min	7.32~18.03	7.28~17.91	7.18~17.67	7.03~17.31	6.89~16.95	6.74~16.60
		Oil Injection Quantity L/min	58.7~146.9	63.5~158.9	74.7~186.9	87.6~219.0	102.0~255.1	118.8~297.1
		Shaft Power kW	44.6~111.2	47.5~118.7	54.5~136.0	62.4~155.7	71.3~178.0	81.7~203.9
YNE204RA	45.5~192.8	Rotate Speed RPM	1480~3570					
		Flow Rate m³/min	9.20~22.64	9.17~22.57	9.09~22.39	9.01~22.18	8.88~21.85	8.78~21.61
		Oil Injection Quantity L/min	75.2~188.4	80.8~202.3	92.8~232.1	107.9~269.9	126.3~315.8	139.1~347.7
		Shaft Power kW	56.9~142.1	60.4~150.8	67.8~169.3	77.2~192.8	88.6~221.2	96.5~241.0
YNE204RB	51.9~213.6	Rotate Speed RPM	1480~3570					
		Flow Rate m³/min	10.55~25.98	10.52~25.91	10.45~25.73	10.33~25.43	10.19~25.07	10.02~24.66
		Oil Injection Quantity L/min	85.6~214.2	91.1~228.3	103.9~260.0	120.7~301.9	139.0~347.8	153.5~384.0
		Shaft Power kW	64.8~161.9	68.3~170.6	76.2~190.3	86.6~216.3	98.0~244.7	106.9~267.0
YNE204RS	42.8~182.9	Rotate Speed RPM	1480~3570					
		Flow Rate m³/min	8.44~20.75	8.39~20.66	8.34~20.54	8.25~20.30	8.10~19.94	8.00~19.70
		Oil Injection Quantity L/min	71.0~177.8	75.8~189.7	87.7~219.5	102.1~255.4	119.7~299.3	132.5~331.3
		Shaft Power kW	53.5~133.5	56.4~140.9	63.9~159.4	72.8~181.7	83.7~208.9	91.6~228.7
YNE226A	65.2~30.66	Rotate Speed RPM	1480~3570					
		Flow Rate m³/min	13.24~32.60	13.19~32.48	13.10~32.24	12.37~31.68	12.66~31.18	12.45~30.66
		Oil Injection Quantity L/min	107.5~269.3	113.5~284.1	127.4~319.0	153.5~383.8	185.4~463.6	214.1~535.4
		Shaft Power kW	81.5~203.4	85.1~212.6	93.8~234.2	109.9~274.4	129.7~323.8	147.5~368.3
YNE226B	70.5~319.4	Rotate Speed RPM	1480~3570					
		Flow Rate m³/min	14.31~35.22	14.26~35.10	14.16~34.86	14.00~34.46	13.77~33.91	13.55~33.35
		Oil Injection Quantity L/min	116.3~291.2	122.7~307.2	137.9~345.1	165.8~414.7	200.1~500.4	232.0~580.1
		Shaft Power kW	88.1~220.0	92.1~229.9	101.5~253.4	118.8~296.6	140.1~349.8	159.9~399.2
YNE280A	89.2~306.0	Rotate Speed RPM	1480~3570					
		Flow Rate m³/min	18.77~45.96	18.67~45.72	18.46~45.22	18.24~44.68		
		Oil Injection Quantity L/min	146.1~373.4	156.4~399.3	177.6~453.1	209.7~534.4		
		Shaft Power kW	111.6~282.9	117.9~298.9	131.0~332.1	150.8~382.5		
YNE280B	98.2~336.5	Rotate Speed RPM	1480~3570					
		Flow Rate m³/min	20.68~50.64	20.58~50.40	20.34~49.80	20.09~49.20		
		Oil Injection Quantity L/min	160.7~410.6	172.5~440.4	195.3~498.3	230.5~587.5		
		Shaft Power kW	122.7~311.2	130.0~329.6	144.0~365.3	165.9~420.7		

# YPM SERIES SINGLE STAGE SCREW AIR ENDS



PROCESSED BY GERMAN KAPP GRINDING MACHINE

FOR HIGH EFFICIENCY PM MOTOR WITHOUT HOUSING AND COUPLING								
Model	Parm.	Rotate Speed RPM	Shaft Power kW	Flow Rate m³/min	Discharge Pressure MPa	Cooling Type	Power Consumption of the Oil kW	Oil Injection Quantity L/min
YPM55A-YL/7.5kW		2950	8.1	1.1	0.8	OIL COOLED & FAN COOLED	6.5	11.1
YPM70A-YL/11kW		2950	12.1	1.72			9.7	16.4
YPM70B-YL/15kW		2950	16.0	2.2			12.8	21.8
YPM80A-YL/18.5kW		2950	20.5	2.9			16.4	27.9
YPM92RA-YL/22kW		2950	22.5	3.2			18.0	30.5
YPM104RA-YL/30kW		2950	33.0	5.00			26.4	44.2
YPM112RA-YL/37kW		2950	40.0	6.0			32.0	53.6
YPM112RB-YL/45kW		2950	50.0	7.4			40.0	67.2
YPM163RA-YL/55kW		3150	59.3	9.1			47.4	79.3
YPM178RB-YL/75kW		2380	76.0	12.1			60.8	100.7
YPM178RB-YL/90kW		2950	95.0	15.1			76.0	125.9
YPM204RB-YL/110kW		2600	120.0	19.8			96.0	157.9
YPM204RB-YL/132kW		2950	138.0	22.8			110.4	181.5