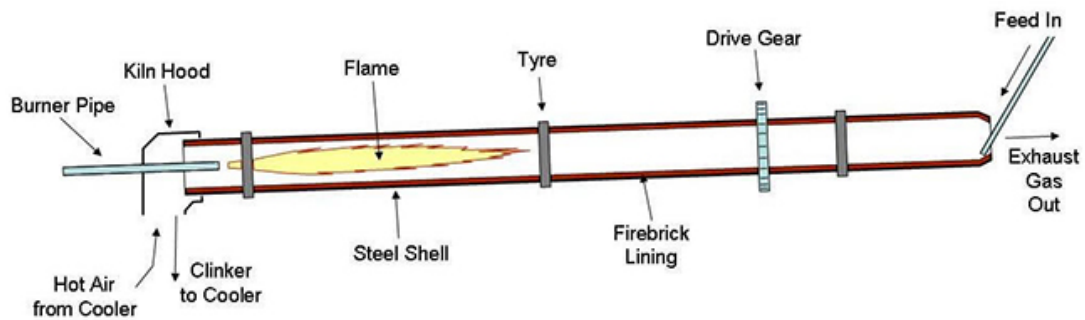


Rotary Kiln



Application:	Cement Plant, Quicklime Plant
Capacity:	1000-5000 t/d
Motor Power:	160-630 kW
Weight:	252-841 tons

Introduction:



[Rotary kiln](#) is a pyroprocessing device used to raise materials to a high temperature (calcination) in a continuous process. Materials produced using rotary kiln include: Cement, Lime, Refractories, Metakaolin, Titanium dioxide, Alumina.

[Great Wall](#) can produce rotary kiln with diameter $\Phi 1$ - $\Phi 5$ m, which is widely used in metallurgy, steel, chemical, refractory, ceramsite, papermaking industries. The [rotary kiln](#) supporting has rolling and sliding type and the drive can use DC or AC variable frequency control. It has various seal types for different working condition. Great Wall can also design and customize non-standard rotary kiln according to customer's special requirements.

Working principle:



Material will be feed into kiln tail through chute in gas chamber. As kiln shell is inclined and it rotates slightly, material will move along round shell and will also move along shaft direction from kiln tail to kiln head. Material will be processed through pre-heat, decompose, calcined and will be feed into cooler. Fuel will be

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given through gas or coal burner at kiln head and will be combusted in kiln. Heat will be transferred to material by fire radiate, hot air flow, kiln brick transfer. The heat will heat and calcined material enough and make it final product.

Specifications:

Model	Output (t/d)	Main Drive (r/min)	Motor (kW)	Regulating Range (r/min)	Gearbox Velocity Ratio	Weight (t)
Φ2.2×5 ₀	96	0.125-1.25	30	132-1320	157	130.71
Φ2.5×5 ₀	130	0.516-1.549	55	440-1320	99.96	167.5
Φ3×48	850	0.3309-3.309	90	100-1000	32.11	237
Φ3.2×4 ₈	1000	0.375-3.75	160	100-1000	27.469	252
Φ3.2×5 ₀	1200	0.398-3.975	190	150-1500	40.85	263
Φ3.3×5 ₂	1200	0.391-3.91	190	100-1000	27.707	280.8
Φ4×60	2500	0.396-3.96	315	100-1000	34.601	487.5
Φ4.2×6 ₀	2800	0.4165-4.165	420	100-1000	35.526	576.1
Φ4.3×6 ₂	3000	0.398-3.98	420	100-1000	35.714	598.5
Φ4.3×6 ₄	3200	0.449~4.49	450	100~1000	24.365	585
Φ4.5×6 ₆	4000	0.41~4.1	630	100~1000	34.069	710.4
Φ4.8×7 ₀	5000~5500	0.4~4.0	630	100-1000	30.876	845.3
Φ4.8×7 ₂	5000	0.403~4.03	560	100~1000	30.365	847
Φ4.8×7 ₄	5000	0.35~4	630	130~1500	42.226	841