

PIONEER KILNS



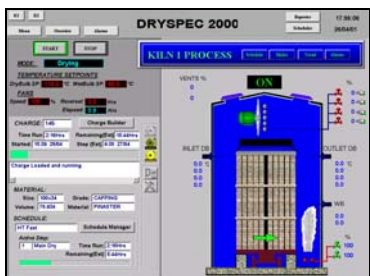
Single track kilns



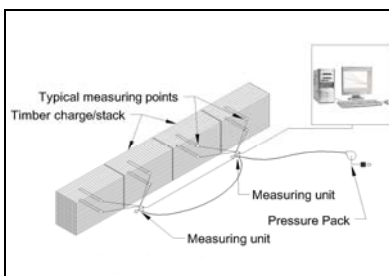
Double track kilns



In kiln steaming



Kiln Control Systems



DryTrack system

KDS Windsor Pioneer Kilns are designed specifically for drying softwoods. The Pioneer offers almost unlimited design flexibility.

- High Performance**
 A KDS Windsor kiln will deliver maximum throughput for minimum operating costs
- Performance guarantees**
 KDS Windsor offers a range of performance guarantees to suit each specification
- In-Kiln Steaming**
 KDS Windsor offers either in-kiln conditioning systems or stand-alone conditioning chambers. The latter option will increase throughput dramatically, particularly on HT drying operations.
- Single Track/Double Track Options**
 KDS Windsor can offer both single and double track kilns. However KDS Windsor's experience shows that single track kilns provide better drying results due to the uniform temperature distribution.
- Noise**
 Noise emissions from kilns must be minimised on some sites. KDS Windsor offer a special 'Q' range of kilns designed to reduce the acoustical emissions to meet statutory requirements.
- Direct/Indirectly heated Kilns**
 KDS Windsor's experience clearly shows that indirectly heated kilns are more effective in producing quality lumber although a small number of direct gas-fired KDS Windsor kilns are operating very successfully in New Zealand and Australia.
- Training, Service and Support**
 KDS Windsor's experienced Service Department and established Wellington based engineering facilities enable us to provide a back-up service which is second to none.

Type	Timber grade	Operating temp. (typical)	Heat-up period (typical)	Typical drying time	Fillet velocity range	Heating medium	
Accelerated Low Temperature	High value appearance grades	40-80°C	8 hours	3-6 days	2-8 m/sec	HPHW Steam Thermal oil	
Accelerated conventional temperature	High value appearance grades	80-110°C	4 hours	36-80 hours	6-8 m/sec	HPHW Steam Thermal oil	
Medium Temperature	High value appearance and structural grades	90-110°C	2 hours	20-48 hours	6-8 m/sec	HPHW Steam Thermal oil	
High Temperature	Structural grades	120-160°C	1 hour or less	6-18 hours	6-12 m/sec	HPHW Steam Thermal oil	
Ultra High Temperature	Structural grades	160-220°C	1 hour or less	3-8 hours	7-16 m/sec	Steam Thermal oil	
Continuous Drying Kilns	Structural grades	110-130°C	Continuous	Continuous	6-8 m/sec	HPHW Steam Thermal oil or Direct Fired	