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! For an efficient use of these tables, first read [HowTo.pdf](#).

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T3.34A. Integrands involving trigonometric functions of arguments containing trigonometric and hyperbolic functions on the interval $(0, \infty)$.

$$1. \int_0^\infty \cos(z \sinh x) dx = K_0(z), \quad \Re\{z\} > 0.$$

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$$2. \int_0^\infty \sin(z \cosh x) dx = \frac{\pi}{2} J_0(z), \quad \Re\{z\} > 0.$$

$$3. \int_0^\infty \cos(z \cosh x) dx = -\frac{\pi}{2} Y_0(z), \quad \Re\{z\} > 0.$$

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$$4. \int_0^\infty \cos(z \sinh x) \cosh \mu x dx = \cos \frac{\mu\pi}{2} K_\mu(z), \quad \Re\{z\} > 0, |\Re\{\mu\}| < 1.$$

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