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Injection/extraction systems across the FCCee complex

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The FCCee complex will produce and transport the lepton beams to the collider ring via a series of beam transfer systems. From the damping ring to the top-up injection in the collider ring, beam injection and extraction systems are required to ensure efficient beam transfer. Each system has specific requirements, determined by the beam energy, required deflection, available space and so on. This contribution presents the concepts for injection and extraction systems across all those machines, as well as the beam transfer line from the HE linac. Special focus is given to the collider technical straight section at Point B, where the integration of booster and collider systems presents unique challenges.

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