



NTS

Nuclear Transport
Solutions



CONCEPT

The NTS

HALEU Transport Package (HTP)

A concept Type A(F) or
Type B(U) Transport Package

Without transport there is no nuclear industry

NTS supports the global nuclear market by providing standalone or end-to-end solutions to nuclear transport and logistics challenges.

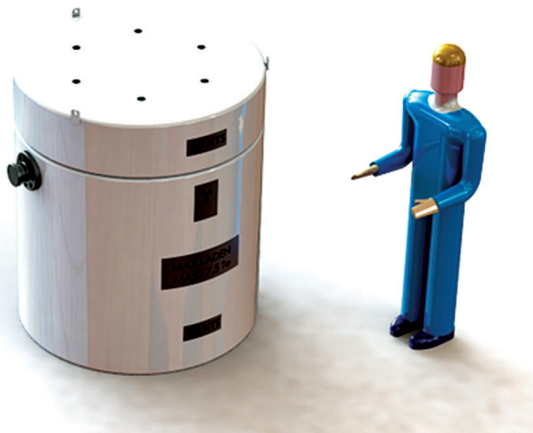
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The **conceptual** HTP is a design study NTS is undertaking to develop a package to support the front-end fuel cycle for Generation IV reactors. The HTP is intended to be used to transport either components of or complete High Assay Low Enriched Uranium (HALEU) fuel assemblies between fuel production facilities or delivery to reactor sites.

The design intent of the HTP is to:

- Provide flexibility with interchangeable internal furniture
- Maximise material payload
- Optimise facility interface with multiple handling options



Please ask an NTS representative for further information on design limits and plant interface requirements.

HTP dimensions	Metres
Overall diameter, over body	~ 1.2
Shock absorber diameter	~ 1.4
Width across trunnions	~ 1.6
Overall length:	
Without shock absorber	~ 1.2
With shock absorber	~ 1.6
Cavity diameter	~ 0.8
Cavity length	~ 1.0
Component	Weight (kg)
HTP body	~ 3,800
HTP lid	~ 500
HTP shock absorber	~ 550
Tare weight	~ 5,100
Max contents (including basket)	~ 2,100
Maximum gross laden weight	~ 7,500

Note – all dimensions/masses quoted are subject to change, as the design matures.