Travel Bag Tech-Pack Checklist

One printable page: the type picker, the specs to lock for all 6 travel bag types, the stress tests to run, and the material rules before you approve bulk. Compiled on the LantaoBags production floor.

1 Pick the type to match your channel

CHANNEL	RECOMMENDED TYPE	WHY
Corporate, hybrid-work & tech brands	**Business travel backpack**	Laptop protection + TSA lay-flat access; laptop impact is the #1 warranty claim, not fabric
Gym, team & event bulk	**Duffel / weekender**	Lowest tooling and collapses flat for cheaper freight; strap hardware is the weak point
Mid-tier retail assortments	**Soft-sided trolley**	No molds — pockets and panels adjust without tooling; watch sewing variability
Premium / executive carry-on	**Hard-shell luggage**	Highest shelf appeal, but ~$3,000 tooling per size and thin shells crack
Promo / Amazon / impulse bundles	**Foldable travel bag**	Folds into a fraction of the carton space; cuts FBA dimensional-weight fees
Assortment add-on / basket size	**Travel tote & laptop bag**	Pairs with hero luggage; under-seat sizing + trolley sleeve drive cross-sell

2 Lock these specs for the 6 types

1 Business travel backpack

- ☐ Suspended false-bottom bay, 25 mm air gap
- ☐ 15–16" laptop fit (not 17")
- ☐ 600D PU-coated shell upgrade (+$0.80/unit)

2 Duffel / weekender

- ☐ Collapsible 600D build for flat freight
- ☐ Metal D-rings, not plastic
- ☐ Box-stitched handle anchors

3 Soft-sided trolley

- ☐ Sewn pocket layout, no molded tooling
- ☐ Wheel quality + telescopic-handle stability
- ☐ Fabric abrasion resistance specified up front

4 Hard-shell luggage

- ☐ Pure polycarbonate shell (not thin ABS)
- ☐ Budget ~$3,000 tooling per size
- ☐ Tight sample approvals + strict MOQs

5 Foldable travel bag

- ☐ YKK zipper on the self-storage pouch

6 Travel tote & laptop bag

- ☐ Strict under-seat sizing (TSA)

- ☐ 210D ripstop body (not tissue-thin rPET)
- ☐ Balance unfolded capacity vs packed size
- ☐ Padded 15" laptop bay; proper handle drops
- ☐ ~7-inch trolley sleeve to fit standard handles

3 Stress tests before bulk

- ☐ Laptop bay: 6 ft drop with a dummy device — zero contact through the bottom
- ☐ Zipper-cycle the admin pocket (~500 pulls)
- ☐ Duffel: 50 lb load + 100 handle yanks at the anchors
- ☐ Trolley: 10-mile wheel drag; 300 telescopic-handle compressions
- ☐ Hard shell: 2-metre concrete drop on a corner and wheel
- ☐ Foldables: ~45 pouch-zipper packing cycles

4 Material rules before you approve

- ☐ Rugged business use: 1680D ballistic nylon — top abrasion resistance (~1,200 ASTM D3884 cycles)
- ☐ Weight-sensitive / sub-500-unit programs: 600D PU-coated polyester — ~80% of the protection at ~60% of the weight
- ☐ PU leather: high perceived value, but scratches, adds weight, needs REACH compliance
- ☐ Packable bodies: denser 210D ripstop beats thin recycled PET
- ☐ Never back a "waterproof" claim with only a water-resistant spray

5 Quote, sample & QC gates

- ☐ Confirm MOQ per style and per colour in writing
- ☐ Lock the tech pack before tooling; golden sample signed and retained
- ☐ Approved PP sample (built with production tooling) before bulk
- ☐ In-line inspection through the run; final pre-shipment audit at AQL 2.5 (ISO 2859-1)

Guidance only — confirm all test standards and compliance documents with your own QA team.