

# Alibaba Ships a Virtual Try-On That Composes Full Outfits From 6 Items on Taobao

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The infographic features a dark blue background with a light blue grid. In the top right corner, there is a faint line graph with three data points. The main title 'Alibaba Ships Virtual Try-On for Full Outfits' is prominently displayed in white and light blue. Below the title, the text 'Tstars-Tryon 1.0 · 6-item composition on Taobao at production scale' is written in a smaller white font. Three key statistics are presented in separate boxes: '6 items' (Max garments composited in a single try-on), '465 types' (Fine-grained fashion subcategories covered), and '10M+ daily' (Try-on requests served on the Taobao app). The date 'April 28, 2026' is located at the bottom left, and the 'ToKnow.ai' logo is at the bottom right.

## Alibaba Ships Virtual Try-On for Full Outfits

Tstars-Tryon 1.0 · 6-item composition on Taobao at production scale

- 6 items**  
Max garments composited in a single try-on
- 465 types**  
Fine-grained fashion subcategories covered
- 10M+ daily**  
Try-on requests served on the Taobao app

April 28, 2026

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Alibaba released [Tstars-Tryon 1.0](#), a virtual try-on system deployed on the Taobao app that handles tens of millions of requests daily for millions of users. Where most research models work with one garment at a time, Tstars-Tryon composes complete outfits from up to 6 separate reference images across 8 fashion categories: tops, coats, pants, skirts, dresses, shoes, bags, and hats. Built on a multimodal Diffusion Transformer (mmDiT) backbone with multi-stage

training, the system runs at near real-time speed while preserving fine details like stitching, fabric texture, and material sheen. It handles the conditions that break academic try-on models: extreme poses, harsh lighting, motion blur, and layered outfits. Alibaba also released [Tstars-VTON](#), an open benchmark of 1,780 paired samples across 465 fine-grained subcategories, scored by a VLM-based judge on identity consistency, garment fidelity, background preservation, and physical plausibility.

If you shop online, this changes what “see how it looks” means. Instead of flat product photos or one-item overlays, you upload your photo and see a full outfit rendered on your body in seconds. The 6-reference composition turns try-on from a single-garment preview into a complete outfit builder. For fashion retailers, this is the kind of feature that reduces return rates, since customers can preview exact combinations before buying.

Virtual try-on has been a research topic for years, but the gap between curated demos and messy real-world e-commerce was wide. A system handling tens of millions of daily requests on one of the world’s largest shopping apps closes that gap and sets the production bar everyone else now has to clear.

Sources:

- [Tstars-Tryon 1.0: Robust and Realistic Virtual Try-On for Diverse Fashion Items \(arXiv\)](#)
- [Tstars-VTON Benchmark Dataset \(HuggingFace\)](#)
- [Tstars-VTON on ModelScope](#)
- [Tstars-Tryon 1.0 Paper \(HuggingFace Papers\)](#)

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