

# Mobile FR3 Duo

## PROTOTYPE

Mobile FR3 Duo is an all-in-one robotic system that combines Tactile Mobile Robot (TMR) with FR3 Duo. It integrates mobility, perception, and dual-arm manipulation, making it ideal for data collection and real-world AI deployment.



### 1. Dual FR3s on the Move

The system delivers force-sensitive, bimanual manipulation by combining two FR3 Arms on a mobile base. Researchers benefit from high-frequency low-level access through Franka Control Interface (FCI), and a ready-to-use setup without additional integration overhead.

### 2. Integrated Mobile Manipulation

Mobile FR3 Duo supports complex manipulation tasks in dynamic environments by merging the capabilities of FR3 Duo and Tactile Mobile Robot. Mechanical, electrical, and software integration are handled out-of-the-box, drastically reducing setup time for researchers.

### 3. Advanced Perception and Modularity

Mobile FR3 Duo inherits the rich sensor suite of TMR — including LIDAR, RealSense cameras, and IMU — and adds full-body coordination with two force-sensitive FR3 arms. The modular frame and mounting points support extensibility for custom equipment and future upgrades.

Interested in Mobile FR3 Duo?  
Contact our team!

<https://franka.de/mobile-fr3-duo>





Base Dimensions  
800x580x294 mm



Reach per Arm  
855 mm



Payload  
100 kg (Base)  
3 kg (per Arm)



Max Speed  
1.75 m/s



Embedded Sensors  
14x Arm Torque  
Sensors, 2x Lidars,  
8x Cameras, 1x IMU



Computing Platform  
NVIDIA Jetson  
AGX Orin



Connectivity  
Wi-Fi, Ethernet,  
USB, Bluetooth



Control Freq.  
1 kHz  
(FCI)

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