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Teknik ve Tıbbi Sistemler San. ve Tic. A.Ş.



TANDEM Plus

Tandem Pendant Systems

Designed for critical care environments such as intensive care units, high-dependency care, trauma resuscitation, emergency departments, and postoperative recovery areas, **TANDEM Plus provides two separate working points across a wider working area through two independent tandem arm structures.**

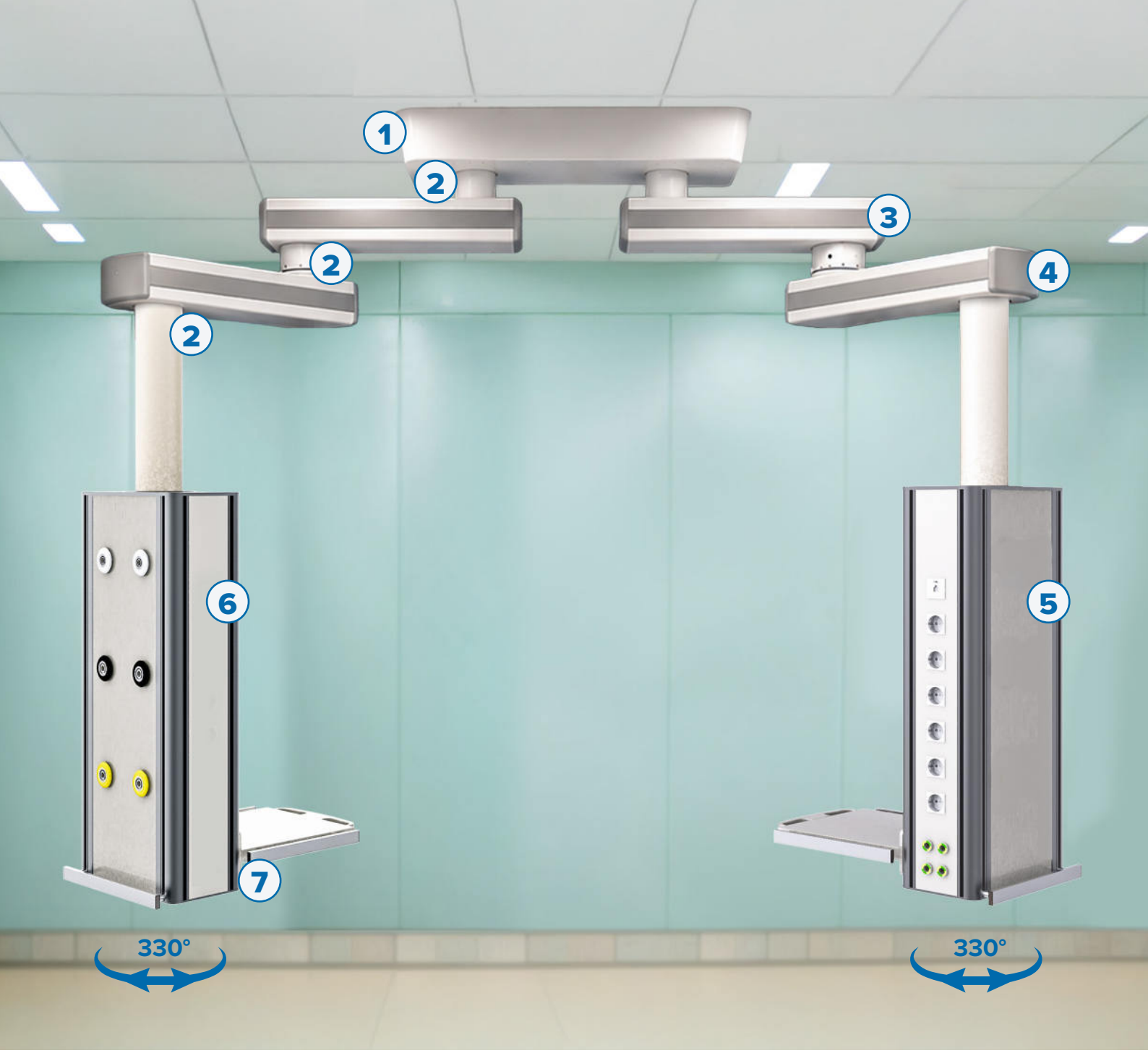
Its dual-column configuration separates medical gas and electrical lines into wet and dry sides. Available with two console models, HEXMOD and KALE, the system adapts to different clinical requirements with a wide range of accessory options.



TANDEM Plus Pendant Systems

The arm structure consists of two independent carrier arms, each connected to a non-motorized arm. They provide two separate working areas across a **wider working range**.
Gas and electrical connections are housed in separate consoles. Each can be configured with purpose-specific accessories.

- **Separate Arrangement**
  Independent Gas & Electrical Lines
- **Double-Sided Access**
  Two Separate Working Points
- **HEXMOD & KALE Consoles**
  Designed for Different Needs
- **Accessory Compatibility**
  Extensive Equipment Options
- **Mechanical & Pneumatic Brakes**
  Push-Button Locking
- **Custom Dimensions**
  Project-Specific Design



1 · Leveling Plate

Ensures accurate leveling and stable positioning during ceiling installation, providing a solid base.

2 · Rotation Joints

The arms and console rotate independently at 330°, providing multi-directional movement.

3 · Right & Left Carrier Arms

They connect directly to the leveling plates and support the double arm groups.

4 · Right & Left Movable Arms

The movable arms on the right and left support the wet and dry consoles. 330° rotation enables horizontal movement.

5 · Dry Side (Electrical Area)

The dry side includes electrical and data outlets. Cables are separated from the gas lines. Medical deviced, patient monitors, and other electrical equipment can be positioned on the dry side.

6 · Wet Side (Medical Gas Area)

The wet side contains all medical gas outlets and their accessories. Copper pipes are housed in dedicated channels and isolated from the electrical lines.

7 · Multipurpose Rail Channel

Allows the installation of clinical accessorie such as shelves, drawers, IV poles and monitor shelves for flexible system configuration.

Compatible Accessories

Thanks to the multipurpose rail channels integrated into the console, a wide range of accessories can be easily mounted onto the pendant. These channels allow shelves, drawers, monitor holders, IV poles, and various clinical equipment to be positioned according to workflow needs.

Drawer Units



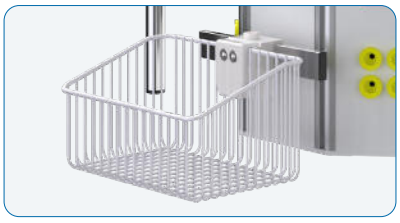
Shelf Units



Monitor Stands



Baskets



IV Pole





General Features

Power Supply	220V - 50Hz
Working Temperature	10 °C / 45°C

Mechanical Specifications

Brake System	Pneumatic Brake, Mechanical Brake
Console Design	KALE Console, HEXMOD Console
Number of Accessory Rails	KALE Console – Max. 4 Rails HEXMOD Console – Max. 6 Rails
Mounting Type	Ceiling Mount
Recommended Mounting Height	Approx. 900 mm (from Finished Floor Level)
Load Capacity	120 – 180 kg

* *Maximum load capacity decreases as arm length increases.*

Outlet & Accessory Layout

Wet Side Outlets	Medical Gas Outlets
Wet Side Accessories	Aspirations Units, AGSS Connections, Flowmeters, Pressure Gauges, Vacuum Gauges and other gas-related accessories
Dry Side Outlets	Grounded Electrical Outlet (Schuko), Uninterruptible Power Supply (UPS) Outlet, Grounding Node, Data Outlet
Dry Side Accessories	Monitor Stands and Monitors, Equipment Drawers, Shelves, Device Stands and other electrical accessories

Medikal Gaz Prizleri

Medical Gases	Oxygen (O2) – Nitrogen Peroxide (N2O) – Medical Air 4Bar (MA4) Surgical Air 7Bar (SA7) – Vacuum (VAC) – Carbondioxide (CO2) Nitrogen (N2) – Anesthetic Gas Scavenging (AGSS)
Gas Outlet Standards	BS - DIN - NF
Gas Purge Options	Venturi / With Pump

Medical Gas Provisions (Default)

Console Type	O2	N2O	MA4	SA7	VAC	AGSS	CO2
Wet Side	**3**	**-**	**3**	**-**	**3**	**-**	**-**

Electrical Equipment

Electrical Outlets	Grounded Electrical Outlet (Schuko), Uninterruptible Power Supply (UPS) Outlet, AGSS Switch, Grounding Node, Data Outlet, Manometer, Vacuummeter

Electrical Outlet (Default)

Console Type	Data Outlet (RJ45)	Electrical Outlet	UPS Outlet	Grounding Node
Dry Side	**4**	**-**	**16**	**8**

Standards

Quality Standards	EN ISO 9001:2015 – EN ISO 13485:2016
Management Standards	93/42 EEC – 2007/42/EC – EN ISO 14971 – EN ISO 15223 – EN 1041+A1
Electrical Standards & Testing	EN 60601-1:2009 – EN 60601-1-2:2011 – IEC 62366-1:2015
Medical Gas Standards	EN ISO 7396-1:2016 – EN ISO 7396-2:2013 EN ISO 9170-1:2020 – EN ISO 11197:2020 – HTM-01-02

Gas, electrical and accessory modules are fully customizable. Specifications may change without notice. Images are for illustration and may vary by model. Electrical outlets and gas points are shown as standard and can be modified.

SYSTEM COMPONENTS

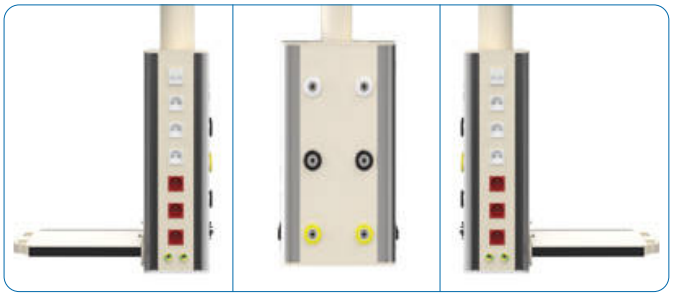
Pendant Arm Configuration

Pendant Arm Type	2 Non-Motorized Arm + 2 Non-Motorized Arm
Horizontal Rotation	330°
Standard Arm Lengths (A)	600 / 800 / 1000 mm

Console Options

Console Models	Kale Model, HexMod Model
Console Types	Gas Side (Wet) – Electrical Side (Dry)
Number of Consoles	2 Consoles
Rotation Angle	330°
Standard Lengths (B)	650 mm – 850 mm – 1000 mm

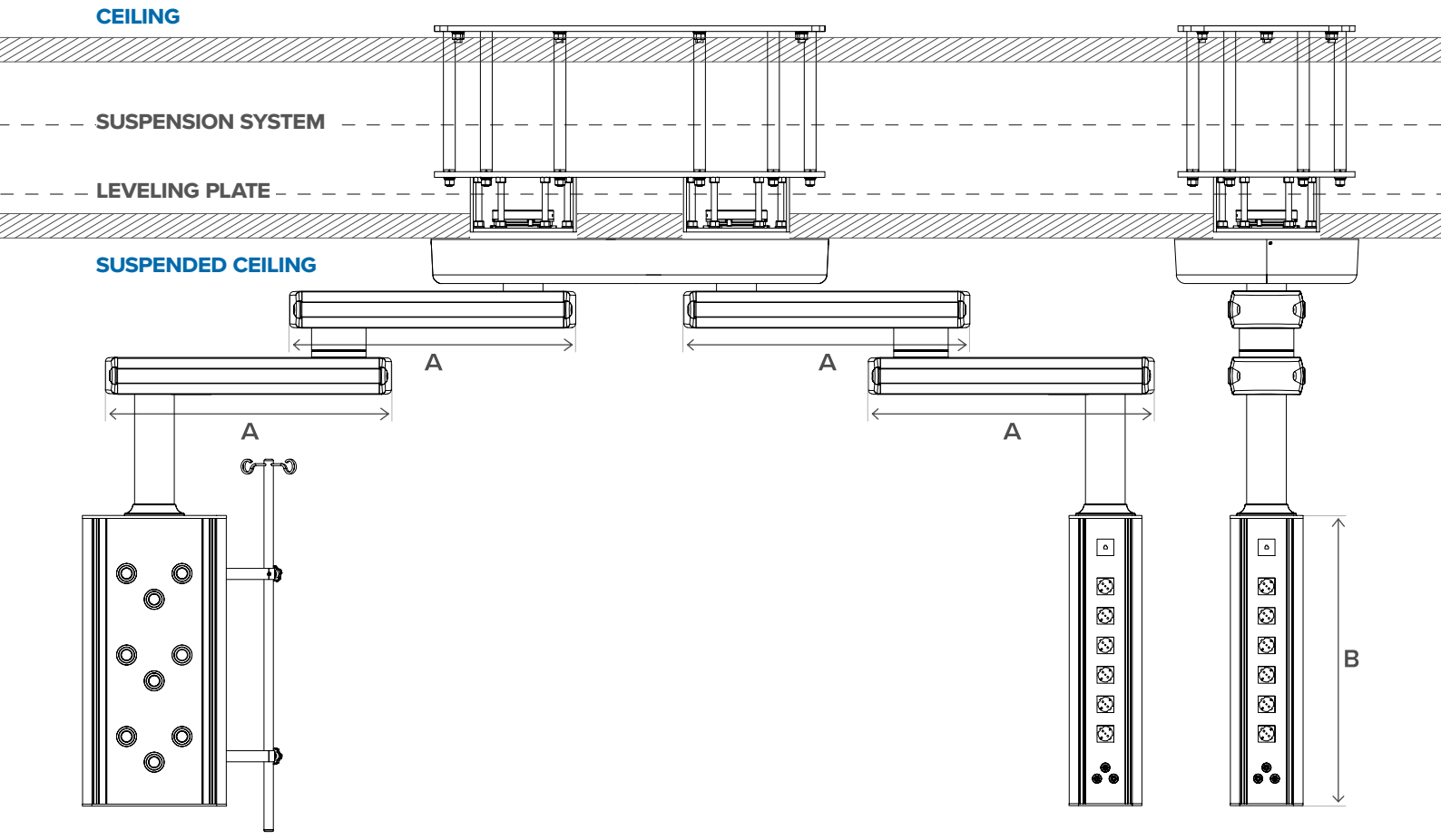
Kale Model



Hexmod Model



* *Custom dimensions are available upon request. Gas and electrical outlets can be customized according to application requirements.*



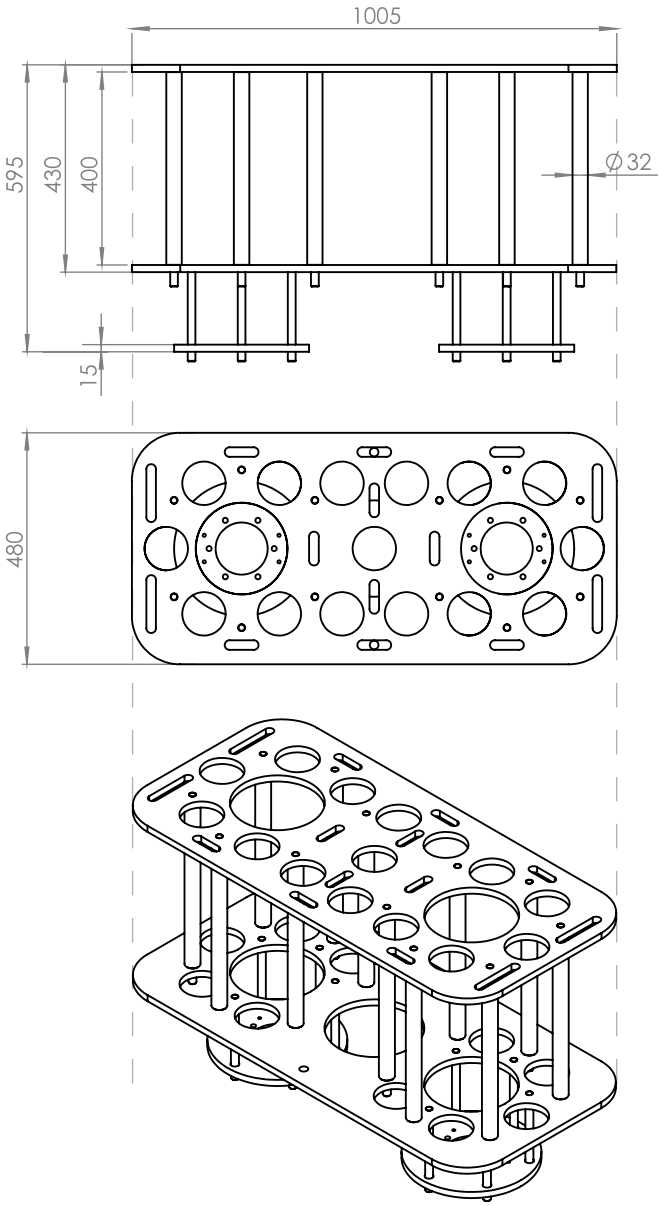
Technical specifications may change without prior notice. The images are provided as examples and may vary depending on the model.

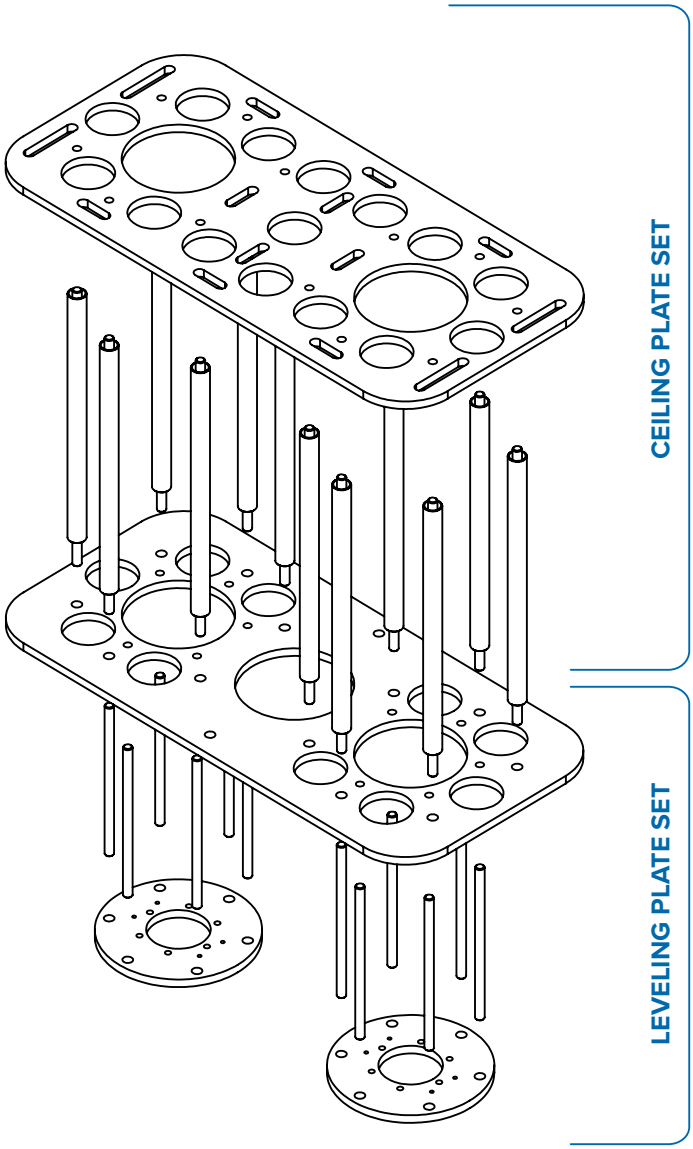
Ceiling Mounting System

The ceiling mounting system provides a secure connection between the pendant and the structural ceiling. Its adjustable design adapts to different ceiling heights and project requirement.

Technical Specifications

System Configuration	Ceiling Plate Set + Leveling Plate Set
Ceiling Plate	1005 × 480 mm
Leveling Plate	1005 × 480 mm
Mounting Flange	Ø280 mm
Fastener	M16 Threaded Rod
Galvanized Steel Pipe	Ø32 × 2 mm
Standard Threaded Rod Length	400–960 mm *(adjustable)*





** The total mounting height is determined according to project requirements.*
*** Additional structural steel support is required for total mounting heights exceeding 1200 mm.*
**** The ceiling mounting system is supplied separately from the pendant system and quoted according to project requirements.*



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