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



DUOPEN Non-Motorized

Double Arm Pendant Systems

The modular pendant system is designed for intensive care units, operating rooms, anesthesia, and other surgical environments. Gas, electrical, and accessory modules can be configured to meet specific clinical requirements.

Two independent pendant arms and a rotating console provide a wider working area around the patient and extended reach. Available with HEXMOD and KALE console options, the system adapts to different clinical applications with a wide range of accessories.



DUOPEN Double Arm Non-Motorized Pendant Systems

Designed for maximum reach, the double arm pendant system combines two independent pendant arms to **provide a wider working radius and extended reach.**
The rotating console ensures flexible positioning and ergonomic operation.

Wide Horizontal Reach
Extended Reach with Dual Arm

HEXMOD & KALE Consoles
Tailored to Different Clinical 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 · Pendant Arms (Non-Motorized)

The dual-arm design allows the console to move across a wider working area.

4 · Column

Routes gas, electrical, and communication lines.

5 · Console

Electrical and medical gas outlets are on the console. HexMod and Kale models available.

6 · 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



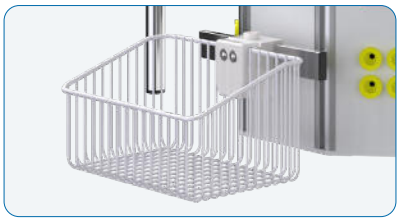
Shelf Units



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.*

Medical Gas Outlets

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
Anesthesia	**2**	**1**	**2**	**-**	**2**	**1**	**-**
Surgical	**2**	**-**	**2**	**1**	**2**	**-**	**1**
General	**2**	**1**	**2**	**1**	**2**	**1**	**-**
Intensive Care	**2**	**-**	**2**	**-**	**2**	**-**	**-**

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	Electrical Outlet	UPS Outlet	Data Outlet (RJ45)	Grounding Node	Pressure Gauge
Anesthesia	**4**	**4**	**2**	**8**	**1 Unit / Gas Type**
Surgical	**4**	**4**	**2**	**8**	**1 Unit / Gas Type**
General	**4**	**4**	**2**	**8**	**1 Unit / Gas Type**
Intensive Care	**4**	**4**	**2**	**8**	**1 Unit / Gas Type**

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

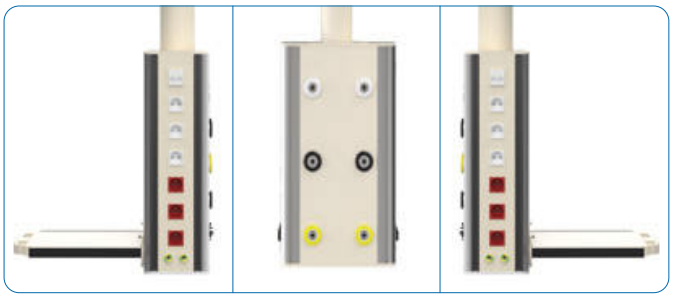
Pendant Arm Configuration

Pendant Arm Type	Non-Motorized
Number of Pendant Arms	2 Arms
Horizontal Rotation	330°
Vertical Movement	–
Standard Arm Lengths (A)	600 / 800 / 1000 mm

Console Options

Console Models	Kale Model, HexMod Model
Rotation Angle	330°
Standard Lengths (B)	650 mm – 850 mm – 1000 mm
Console Types	Anesthesia – Surgical – General Care – Intensive Care

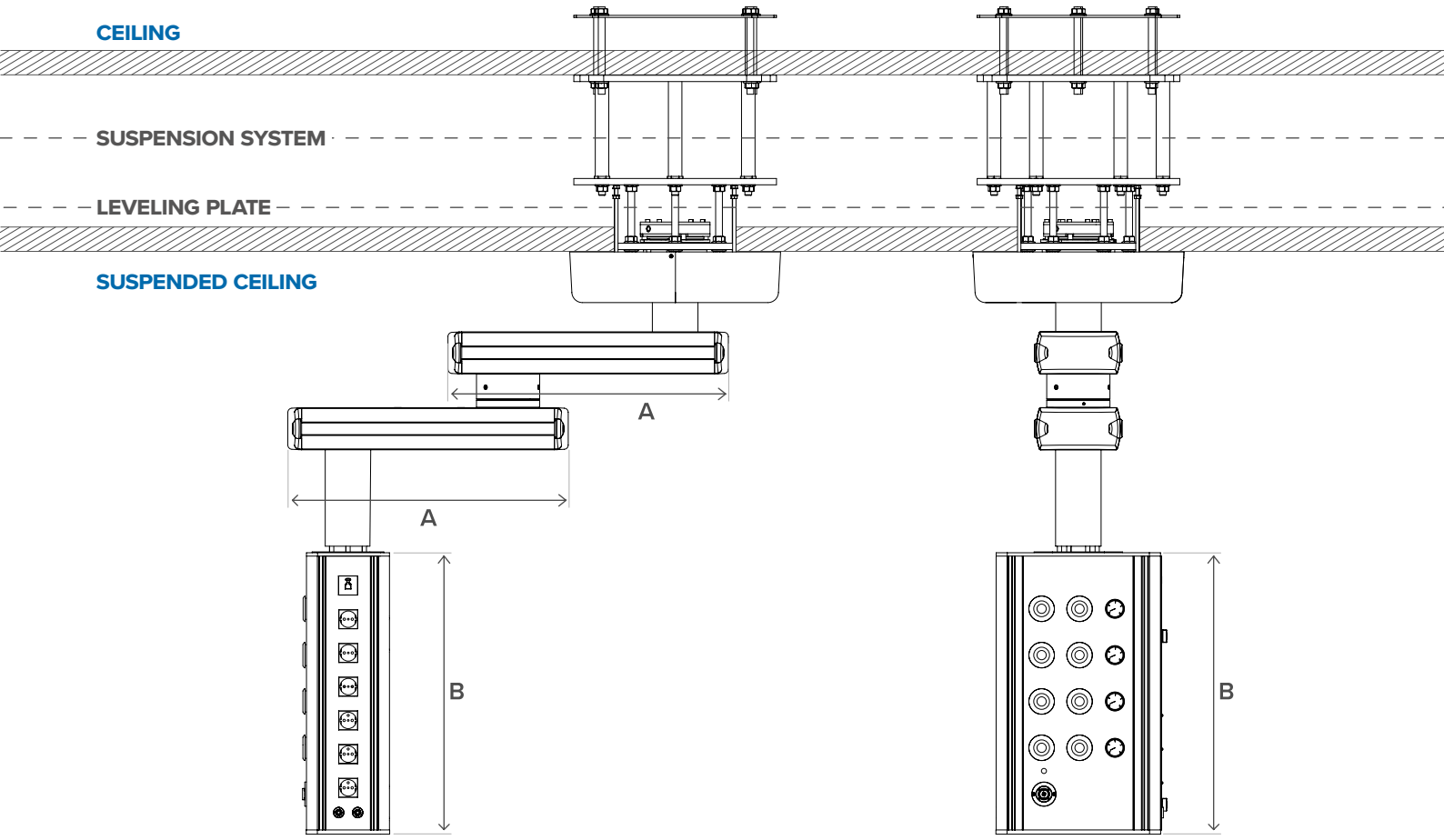
Kale Model



Hexmod Model



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



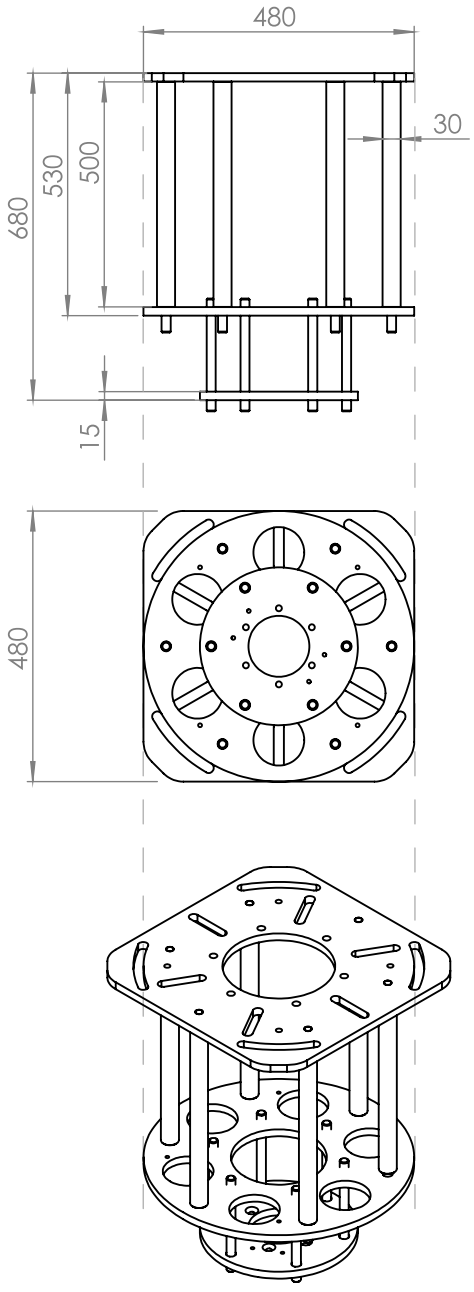
Technical specifications may change without prior notice. The images are provided as examples and may vary depending on the model.

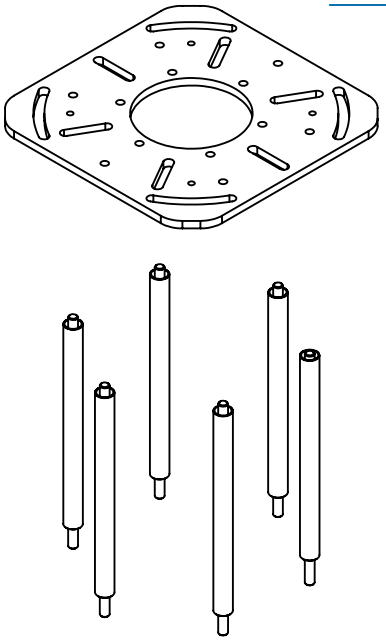
Ceiling Mounting System

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.

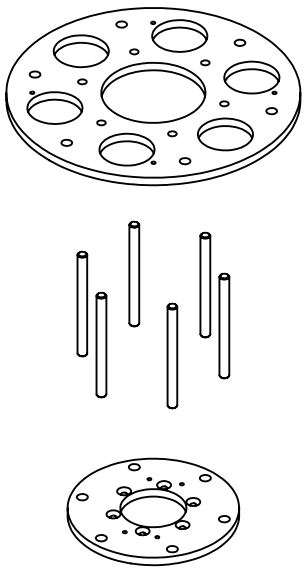
Technical Specifications

System Configuration	Ceiling Plate Set + Leveling Plate Set
Ceiling Plate	480 × 480 mm
Leveling Plate	Ø480 mm
Mounting Flange	Ø280 mm
Fastener	M16 Threaded Rod
Galvanized Steel Pipe	Ø32 × 2 mm
Standard Threaded Rod Length	400–960 mm *(adjustable)*





CEILING PLATE SET



LEVELING PLATE SET

** 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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