Radio remote controls for hydraulic truck cranes
Since 1988 we design and manufacture industrial safety radio remote controls for every kind of truck cranes equipped with an electro hydraulic or a manual distributor. Solidity, ergonomics, safety and quality of the materials used, make of it a cutting edge product, of the innovative design.

ADVANTAGES:

WORKING COMFORT AND COST REDUCTION
The operator, free from the bond of the cable or of the fixed station, can take place in the most safe and suitable position to control the machine and the load, without the aid of other operators.

SIZE AND WEIGHT
They are very compact and thus, allow the operator to have a higher freedom of movement.

CERTIFIED SAFETY
The STOP circuit ensures the maximum level of safety in accordance with the European and international standards.

CALIBRATION VIA RADIOFREQUENCY
It is possible to calibrate the response of each semi-axis of the joysticks directly by radio, by adapting it to the actual travel of the crane’s lever.

THE DSC FUNCTION
The DSC function performs instant corrections of the speed (low-speed mode), thus allowing the operator to better manage complex micro movements dictated by the characteristics of the loads that are present on the crane from time to time.

OPTICAL JOYSTICKS
Designed and manufactured by IMET, thanks to their wide inclination angle (+/- 40°), guarantee a precise handling, like no other, that will continue throughout the remote control’s life.

LOGGING OF EVENTS
IMET Radio remote controls log every event causing a failure or an abnormal stop, as well as the number of hours done by the remote control.

ERGONOMIC WAIST BELT
The practical belt allows the operator to completely free his hands to better follow the operations of hooking/unhooking the load of the crane.

THE DIAGNOSIS TOOL
It interfaces the PC to the radio control, allowing to check all the operating parameters and to see the list of the most significant events that have taken place.

EXTREME ENVIRONMENTS
The boxes are designed and manufactured with materials highly resistant to impacts. Operating temperatures from -25°C to +70°C.

AUTOMATIC FREQUENCY CHANGE
Constructed with ‘AFA’ technology, it eliminates the risk of interferences; the most free channel among all the present ones, is continuously sought after and selected.
ROBUST AND INNOVATIVE

The new model from IMET, built to obtain maximum performance and minimum overall dimensions, it is designed for 4 and 5 function truck cranes. Featuring a practical clip for quick attachment to the waist belt, KRON impresses with its easy handling and ease of use thanks to the design of its handle, which will render comfortable every work situation. KRON is available in three versions: Basic, Standard and Plus.

SOLID AND VERSATILE

A perfect mix of reliability and versatility reunited in a single control station; ZEUS2 is the synthesis of the best ergonomic and functional features. The compact size of the panel, make an easily customizable transmitter, according to the specific needs. Suitable for hydraulic cranes with 5 to 7 functions, it is a masterpiece of technology that will transform you into a director of operations. ZEUS2 is available in versions: Standard and Plus.
STRONG AND COMPLETE

With up to 9 single-axis joysticks on the main panel, comfortable width and double battery for non-stop working shifts, THOR2 is aimed at hydraulic cranes with 6 to 10 functions. Numerous push-buttons, potentiometers, toggle or rotary switches find place on the main panel, making THOR2 also suitable for any truck crane of the forestry or the recycling sectors, including large-size ones. THOR2 is available in versions: Standard and Plus.
IMET offers 7 different models for this type of hydraulic cranes. KRON M4, with its reduced size and attractive design, is available in the versions Basic, Standard, Plus, which allow you to choose the model best suited to the characteristics of the crane.

ZEUS2 M4, versatile and ergonomic, is available in the versions Standard and Plus and can be issued with a serial cable for a possible use as wire control.

ZEUS2 B2, on the other hand, is preferred by the operators who like to use 2 double-axis joysticks, instead of the classical 4 single-axis ones.

**DESCRIPTION OF VERSIONS BASIC, STANDARD AND PLUS**

- **Basic:** Rabbit/snail (only on KRON series)
- **Standard:** DSC, IN-SLOW, rabbit/snail, RPM +/-, motor on/off
- **Plus:** DSC, IN-SLOW, rabbit/snail, RPM +/-, motor on/off, lights on/off, load indication 90%/100% by means of Led

**OPTIONS**

- Machine status report by means of Led and display (only on ZEUS2). Serial cable (only on ZEUS2).

**MATCHING RECEIVERS**

- M880 L-DC with proportional and ON-OFF outputs; versatile and compact.
- In alternative: receiver K-DC with CAN BUS / CAN OPEN protocol.
M880

RADIO REMOTE CONTROLS
FOR 5-FUNCTION CRANES

For the 5-function cranes, there are 3 different radio remote control models. KRON M4 with auxiliary command for the selection of the 5th function; ZEUS2 M5 with 5 single-axis joysticks, available in versions Standard or Plus.

DESCRIPTION OF VERSIONS STANDARD AND PLUS

<table>
<thead>
<tr>
<th>Standard</th>
<th>DSC, IN-SLOW; rabbit/snail, RPM +/-; motor on/off</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plus</td>
<td>DSC, IN-SLOW; rabbit/snail, RPM +/-; motor on/off, lights on/off, load indication 90%/100% by means of Led</td>
</tr>
</tbody>
</table>

OPTIONS

Machine status report by means of Led and display (only on ZEUS2). Serial cable (only on ZEUS2).

MATCHING RECEIVERS

M880 L-DC with proportional and ON-OFF outputs; versatile and compact.
In alternative: receiver K-DC with CAN BUS / CAN OPEN protocol.

KRON M4 PLUS
ZEUS2 M5 PLUS
ALSO AVAILABLE
WITH SERIAL CABLE
IMET offers 6 different radio remote control models for this type of hydraulic cranes: ZEUS2 M6 in versions Standard and Plus. THOR2 M6, in versions Standard and Plus. It allows for higher sensibility and precision in the most delicate situations, through increased spacing between the joysticks. THOR2 B3, in versions Standard and Plus. It is equipped with 3 double-axis joysticks instead of 6 single-axis ones.

DESCRIPTION OF VERSIONS STANDARD AND PLUS

**Standard:**  DSC, IN-SLOW, rabbit/snail, RPM +/-, motor on/off
**Plus:**  DSC, IN-SLOW, rabbit/snail, RPM +/-, motor on/off, lights on/off, load indication 90%/100% by means of Led

OPTIONS

**Machine status report by means of Led and display.**
**Serial cable.**

MATCHING RECEIVERS

**M880 L-DC with proportional and ON-OFF outputs; versatile and compact.**
In alternative: receiver K-DC with CAN BUS / CAN OPEN protocol.
For the 7/8-function cranes, there are 3 different radio remote control models. ZEUS2 M6, in versions Standard and Plus, with a command to enable the 7th-8th function. THOR 2 M8, in versions Standard and Plus, with 8 single-axis joystick in line.
The model THOR2 M9 Plus is fit for cranes with 9 or 10 functions; it comes with a command to eventually enable the 10th function.

M880
RADIO REMOTE CONTROLS
FOR 9/10-FUNCTION CRANES

M880
ADD BOX
DISPLAY
AVAILABLE ON MODELS ZEUS2 AND THOR2

ADVANTAGES OF USING THE ADD-BOX ON THE RADIO REMOTE CONTROL

The ADD BOX expands the number of commands present in the transmitting unit, allowing to insert additional push-buttons, potentiometers, switches, etc., according to specific requests. It is also used as housing for a large display (also available with a 128x64 or TFT QVGA 3.5” graphic display) or by LEDs, to visualize data and/or alarms coming from the crane.

DESCRIPTION OF VERSION PLUS

Plus: DSC, IN-SLOW, rabbit/snail, RPM +/-, motor on/off, lights on/off, load indication 90%/100% by means of Led

OPTIONS

Machine status report by means of Led and display.
Serial cable.

MATCHING RECEIVERS

M880 H-DC with proportional and ON-OFF outputs; modular and complete.
In alternative: receiver K-DC with protocol CAN BUS/CAN OPEN.
The electro hydraulic actuators APT400 can work together with the KRON, ZEUS and THOR radio remote controls, allowing to operate most of the hydraulic cranes on the market that are equipped with only manual controls. The installation of this system requires no welding on the transmission rods and leaves intact the original system of the machine.

The electro hydraulic circuit of the APT400 system was made independent from that of the crane, thanks to a dedicated electro hydraulic control unit. This is to prevent potential failures caused by sharing the oil of the crane’s hydraulic circuit, usually already worn-out by demanding working conditions.

The activation of the control unit takes place only with maneuvers carried-out by the remote control; thus allowing for low operating temperatures, avoidance of waste of energy and by wear of time.

The calibration of the actuators APT400 is done once the installation has been completed, by means of the radio remote control transmitting unit.

**PWM Actuators APT400**

<table>
<thead>
<tr>
<th>Driving signal</th>
<th>PWM at 80Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coil resistance at 20°C (68°F)</td>
<td>5.5 Ohm</td>
</tr>
<tr>
<td>Absorption at 27 Vdc</td>
<td>170 – 630 mA</td>
</tr>
<tr>
<td>Absorption at 13.5 Vdc</td>
<td>330 – 1320 mA</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-20°C + 70°C (-4°F ÷ 158°F)</td>
</tr>
<tr>
<td>Max stroke</td>
<td>26mm (±13mm from center)</td>
</tr>
<tr>
<td>Max stroke (optional)</td>
<td>40mm (100mm from center)</td>
</tr>
<tr>
<td>Thrust force and traction at 12 bar</td>
<td>600N</td>
</tr>
<tr>
<td>Optimal operating pressure</td>
<td>15 – 50 bar</td>
</tr>
<tr>
<td>Max operating pressure</td>
<td>30 bar</td>
</tr>
<tr>
<td>Hydraulic circuit connection</td>
<td>1/4” Gas</td>
</tr>
<tr>
<td>Dimensions (L, W, H)</td>
<td>210 x 36 x 138 mm</td>
</tr>
<tr>
<td>Height (single mode)</td>
<td>150 g</td>
</tr>
<tr>
<td>Standard distance between centers</td>
<td>38, 42, 44, 46, 48, 50 mm *</td>
</tr>
<tr>
<td>Number of standard functions</td>
<td>4 ÷ 8 *</td>
</tr>
</tbody>
</table>

* in case of monoblock of alternators: 4F and 40 mm distance between centers.

**Electro Hydraulic Central Unit**

<table>
<thead>
<tr>
<th>Supply voltage</th>
<th>12 o 24 Vdc ±20% -10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating pressure</td>
<td>18 bar 27 Vdc - 16 bar 13.5 Vdc</td>
</tr>
<tr>
<td>Dimensions (L, W, H)</td>
<td>330 x 130 x 160 mm</td>
</tr>
<tr>
<td>Weight (dry)</td>
<td>6200 g</td>
</tr>
</tbody>
</table>

**Counter Pressure Valve with Filter**

| Flow rate | 700 l/min |
| Dimensions (L, W, H) | 84 x 50 x 132 mm |
| Weight (dry) | 110 g |

**Modular Actuator Block and the 4-Function Monoblock**

<table>
<thead>
<tr>
<th>MODULAR ACTUATOR BLOCK AND THE 4-FUNCTION MONOBLOCK</th>
<th>COUNTER PRESSURE VALVE WITH FILTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driving signal</td>
<td>PWM at 80Hz</td>
</tr>
<tr>
<td>Coil resistance at 20°C (68°F)</td>
<td>5.5 Ohm</td>
</tr>
<tr>
<td>Absorption at 27 Vdc</td>
<td>170 – 630 mA</td>
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<tr>
<td>Absorption at 13.5 Vdc</td>
<td>330 – 1320 mA</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-20°C + 70°C (-4°F ÷ 158°F)</td>
</tr>
<tr>
<td>Max stroke</td>
<td>26mm (±13mm from center)</td>
</tr>
<tr>
<td>Max stroke (optional)</td>
<td>40mm (100mm from center)</td>
</tr>
<tr>
<td>Thrust force and traction at 12 bar</td>
<td>600N</td>
</tr>
<tr>
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<td>15 – 50 bar</td>
</tr>
<tr>
<td>Max operating pressure</td>
<td>30 bar</td>
</tr>
<tr>
<td>Hydraulic circuit connection</td>
<td>1/4” Gas</td>
</tr>
<tr>
<td>Dimensions (L, W, H)</td>
<td>210 x 36 x 138 mm</td>
</tr>
<tr>
<td>Height (single mode)</td>
<td>150 g</td>
</tr>
<tr>
<td>Standard distance between centers</td>
<td>38, 42, 44, 46, 48, 50 mm *</td>
</tr>
<tr>
<td>Number of standard functions</td>
<td>4 ÷ 8 *</td>
</tr>
</tbody>
</table>

* in case of monoblock of alternators: 4F and 40 mm distance between centers.

**Electro Hydraulic Central Unit**

<table>
<thead>
<tr>
<th>Supply voltage</th>
<th>12 o 24 Vdc ±20% -10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating pressure</td>
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</tr>
<tr>
<td>Dimensions (L, W, H)</td>
<td>330 x 130 x 160 mm</td>
</tr>
<tr>
<td>Weight (dry)</td>
<td>6200 g</td>
</tr>
</tbody>
</table>

**Counter Pressure Valve with Filter**

| Flow rate | 700 l/min |
| Dimensions (L, W, H) | 84 x 50 x 132 mm |
| Weight (dry) | 110 g |
The transmitting units of models ZEUS and THOR can be equipped with a socket for the serial connection to the receiver. The direct cable connection excludes the radio transmission, thus overcoming any issues related to signal noise or use of the product in areas where the radiofrequency is not permitted, or due to the exhaustion of the battery.

**TILT SENSOR**

This device is able to recognize emergency situations caused by:

- Loss of the remote control by the operator
- Loss of balance by the operator

The functioning of the TILT SENSOR can be customized according to customer requirements and to the level of safety required: you can set the simple activation of predefined functions (eg. buzzer), up to the suspension of all functions of the radio control.

**SERIAL CABLE**

The transmitting units of models ZEUS and THOR can be equipped with a socket for the serial connection to the receiver. The direct cable connection excludes the radio transmission, thus overcoming any issues related to signal noise or use of the product in areas where the radiofrequency is not permitted, or due to the exhaustion of the battery.

**ADAPTER KIT**

It is possible to connect the actuators APT 400 directly to the proportional manual distributors Walvoil SD6-SD8, Galtech and Parker, thanks to the dedicated flanging kit. This configuration involves the removal of the transmission bars.

**THE BY-PASS VALVE**

This valve is required to make the crane comply with CE regulations. In case you are lacking it, it is available in our product catalog.
### TECHNICAL DATA

#### M880

**TRANSMITTING UNITS**

<table>
<thead>
<tr>
<th>Dimension (L.x.W.x.H.)</th>
<th>180 x 107 x 160 mm, 205 x 150 x 150 mm, 295 x 180 x 160 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (battery included)</td>
<td>≃ 880 g max, ≃ 1450 g max, ≃ 2300 g max</td>
</tr>
<tr>
<td>Range</td>
<td>100 m</td>
</tr>
<tr>
<td>Max number of ON/OFF commands</td>
<td>56 Max</td>
</tr>
<tr>
<td>Max number of analog commands (optional)</td>
<td>16 (19) Max</td>
</tr>
</tbody>
</table>

**Joystick commands**

UMFS = Unintended Movement From Standstill (ISO 13849-1:2006 6.2.6 architecture)

Number of service and safety commands

**Casing material**

Charged Nylon UL94 HB

**Supply voltage**

3.6 Vdc

**Absorption**

95 mA

**Max supply power**

0.38 W

**Battery**

NiMh 3,6V-2,2A/h accumulator

**Autonomy at 20°C with charged battery in continuous service**

≃ 22 hours

**Notice time of low battery**

≃ 15 min

**Character visualization speed on the display**

100 characters/s

**Operating frequency 1**

ISO 13849-1:2006 6.7. architecture

Pl. e, Category 4 / SIL 3

I.S.M. Band 433.050-434.790 MHz

Number of programmable channels: 69, AFA mode (Adaptive Frequency Agility) or on fixed channel.

Max power: 1 mW e.r.p

**Operating frequency 2**

I.S.M. 434.040-434.790 MHz

Number of programmable channels: 30, AFA mode (Adaptive Frequency Agility) or on fixed channel.

Max power: 10 mW e.r.p

2 rows 16 char. / 4 rows 20 char.

128x64 pixel monochrome / TFT QVGA 3.5"

**KRON, ZEUS2, THOR2**

**RECEIVING UNITS**

**Supply voltage AC**

224VA 42-230 Vac Max 0.95A, 24VA

11-30Vdc Max 2A, 24 Vac Max 2A, Safety-enable, Stop

16 relays or 20 M05

**Supply voltage DC**

22 W DC (L DC) max 30 VA (L AC) max

**Safety commands**

Proportional commands (L AC, L DC)

Proportional commands (only L DC)

Communication protocols

CAN, Serial

**Max number of ON/OFF commands**

56 Max

**Max number of analog commands**

16 (19) Max

**Service commands**

Up to 16

**Input port**

Absorbed power

2 STOP relays

**Proportional commands (L AC, L DC)**

PWMI 0 - 1.4 A (F= 40÷150Hz; F=200÷600Hz; F=600÷1000Hz), 25% - 50% - 75%Vcc

PWMI 25% - 50% - 75%Vcc

**Proportional commands (only L DC)**

PWM 0 ÷ 1.4 A (F= 40÷150Hz; F=200÷600Hz; F=600÷1000Hz), 25% - 50% - 75%Vcc

**Communication protocols**

CAN (ID 11-29 bit)

CANOpen (ID 11-29 bit)

RS232/RS485

**Start, Hono, T-Relay**

-25°C - +70°C

-40°C - +85°C

**Degree of protection**

IP 65

**BATTERY CHARGER**

**Supply voltage DC**

11 V – 30 Vdc

**Supply voltage AC**

220Vac

**Absorption**

400mA max DC = 900mA

**Charging current**

2 hours and 45 minutes

**Max charging time**

2 hours and 45 minutes

**Charging power**

11 V – 30 Vdc

**Operating temperature with battery in charge**

-5°C - +45°C (+41°F - +113 °F)

**Storage temperature when off and without battery**

-40°C - +65°C ( -40°F - +153 °F)

80 x 30 x 120 mm

**Weight**

250 g

155 g

**Degree of protection**

IP 20

**COMPLIANCE TO THE REGULATIONS**

- IEC/EN 60950-1:2006
- EN 50371:2002
- EN 62045-32:2008
- ISO 13849-1:2006
- EN 13557/A2:2008
- EN 60100-6-2:2005
- EN 301 489-3 V 1.4.1
- EN 300220-1 V 2.1.1
- EN 300220-3 V 2.1.2
- 1999/5/CE (R&TTE Directive)
- 2006/42/CE (Machinery Directive)

### M880 L AC / L DC

**Supply voltage AC**

224VA 42-230 Vac Max 0.95A, 24VA

11-30Vdc Max 2A, 24 Vac Max 2A, Safety-enable, Stop

16 relays or 20 M05

**Supply voltage DC**

22 W DC (L DC) max 30 VA (L AC) max

224VA 42-230 Vac Max 0.95A, 24VA

11-30Vdc Max 2A, 24 Vac Max 2A, Safety-enable, Stop

16 relays or 20 M05

**Safety commands**

Proportional commands (L AC, L DC)

Proportional commands (only L DC)

Communication protocols

CAN, Serial

**Start, Hono, T-Relay**

-25°C - +70°C

-40°C - +85°C

**Degree of protection**

IP 65

**BATTERY CHARGER**

**Supply voltage DC**

11 V – 30 Vdc

**Supply voltage AC**

220Vac

**Absorption**

400mA max DC = 900mA

**Charging current**

2 hours and 45 minutes

**Max charging time**

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-5°C - +45°C (+41°F - +113 °F)

**Storage temperature when off and without battery**

-40°C - +65°C ( -40°F - +153 °F)

80 x 30 x 120 mm

**Weight**

250 g

155 g

**Degree of protection**

IP 20

**COMPLIANCE TO THE REGULATIONS**

- IEC/EN 60950-1:2006
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- EN 300220-3 V 2.1.2
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- 2006/42/CE (Machinery Directive)
## CHARACTERISTICS

**M880**

<table>
<thead>
<tr>
<th>Version</th>
<th>Variant</th>
<th>Receiver</th>
<th>N° joystick</th>
<th>N° functions</th>
<th>Serial cable</th>
<th>DSC Function</th>
<th>IN-SLOW Function</th>
<th>Rabbit/Snail RPM +/-</th>
<th>Motor on/off</th>
<th>Light on/off</th>
<th>Led 90/100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kron M4 - 10010</td>
<td>Basic</td>
<td>00</td>
<td>L</td>
<td>4 single-axis</td>
<td>4</td>
<td>o</td>
<td>o</td>
<td>o</td>
<td>o</td>
<td>o</td>
<td>o</td>
</tr>
<tr>
<td>Kron M4 - 10011</td>
<td>Standard</td>
<td>00</td>
<td>L</td>
<td>4 single-axis</td>
<td>4</td>
<td>o</td>
<td>o</td>
<td>o</td>
<td>o</td>
<td>o</td>
<td>o</td>
</tr>
<tr>
<td>Kron M4(+1) - 10012</td>
<td>Plus</td>
<td>00</td>
<td>L</td>
<td>4 single-axis</td>
<td>4 + 1</td>
<td>o</td>
<td>o</td>
<td>o</td>
<td>o</td>
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<td>o</td>
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<tr>
<td>Zeus2 M4 - 10013</td>
<td>Standard</td>
<td>00</td>
<td>L</td>
<td>4 single-axis</td>
<td>4</td>
<td>o</td>
<td>o</td>
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<td>Zeus2 M4 - 10014</td>
<td>Plus</td>
<td>00</td>
<td>L</td>
<td>4 single-axis</td>
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<td>o</td>
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<tr>
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<td>Standard</td>
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<td>L</td>
<td>2 double-axis</td>
<td>4</td>
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<tr>
<td>Zeus2 B2 - 10016</td>
<td>Plus</td>
<td>00</td>
<td>L</td>
<td>2 double-axis</td>
<td>4</td>
<td>o</td>
<td>o</td>
<td>o</td>
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<td>o</td>
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<tr>
<td>Zeus2 M5 - 10017</td>
<td>Standard</td>
<td>00</td>
<td>L</td>
<td>5 single-axis</td>
<td>5</td>
<td>o</td>
<td>o</td>
<td>o</td>
<td>o</td>
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<tr>
<td>Zeus2 M5 - 10018</td>
<td>Plus</td>
<td>00</td>
<td>L</td>
<td>5 single-axis</td>
<td>5</td>
<td>o</td>
<td>o</td>
<td>o</td>
<td>o</td>
<td>o</td>
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<tr>
<td>Zeus2 M6 - 10019</td>
<td>Standard</td>
<td>00</td>
<td>L</td>
<td>6 single-axis</td>
<td>6</td>
<td>o</td>
<td>o</td>
<td>o</td>
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<td>o</td>
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</tr>
<tr>
<td>Zeus2 M6 - 10020</td>
<td>Plus</td>
<td>00</td>
<td>L</td>
<td>6 single-axis</td>
<td>6</td>
<td>o</td>
<td>o</td>
<td>o</td>
<td>o</td>
<td>o</td>
<td>o</td>
</tr>
<tr>
<td>Zeus2 M6(+2) - 10021</td>
<td>Standard</td>
<td>00</td>
<td>L</td>
<td>6 single-axis</td>
<td>6 + 2</td>
<td>o</td>
<td>o</td>
<td>o</td>
<td>o</td>
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**Included** • **Not Included** •
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