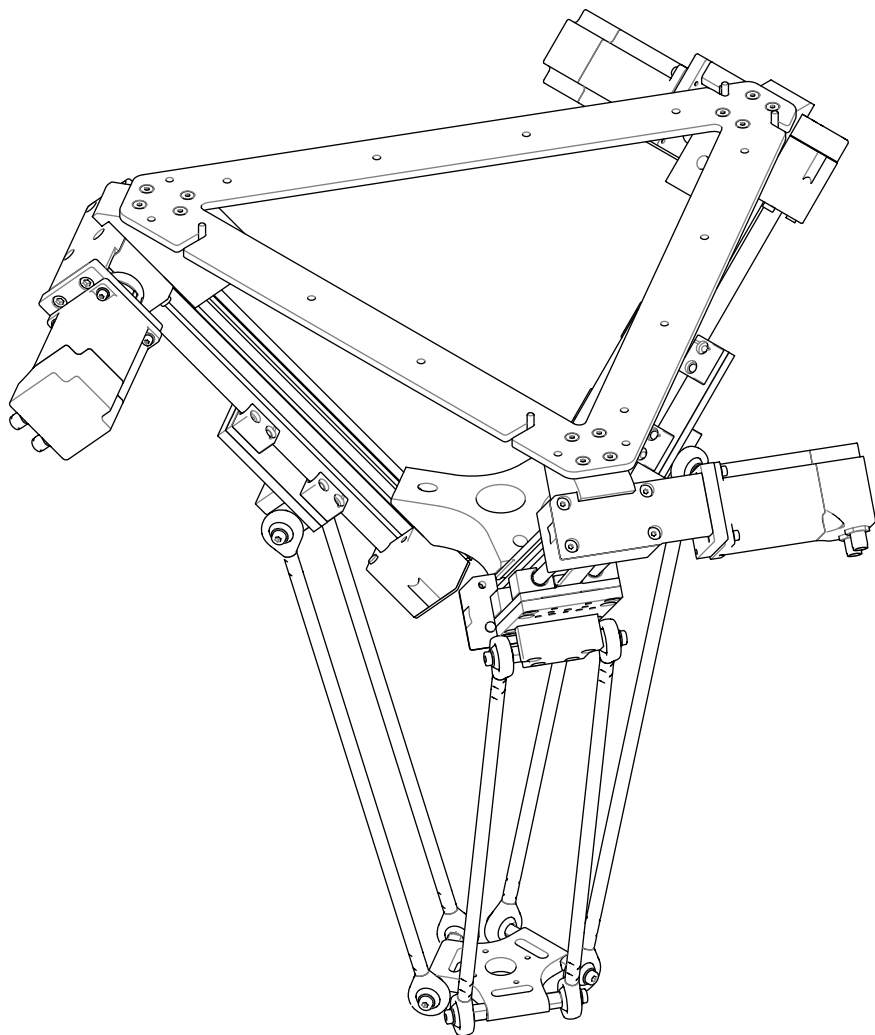


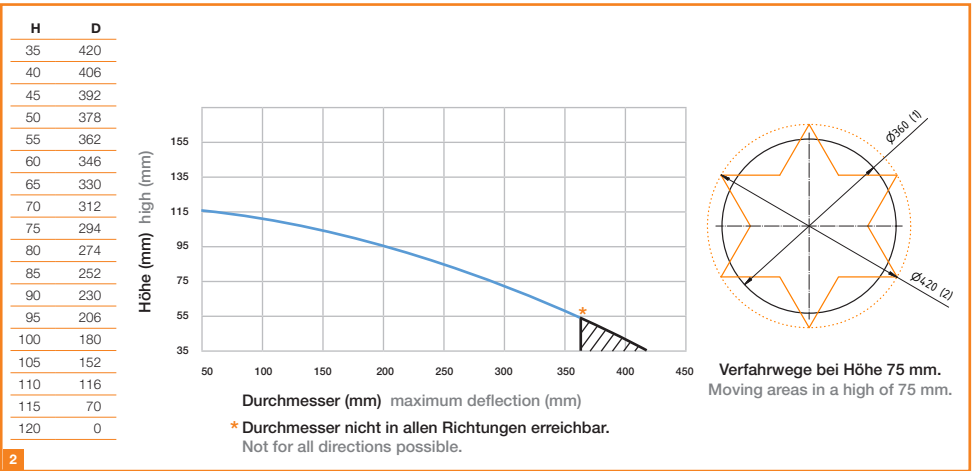
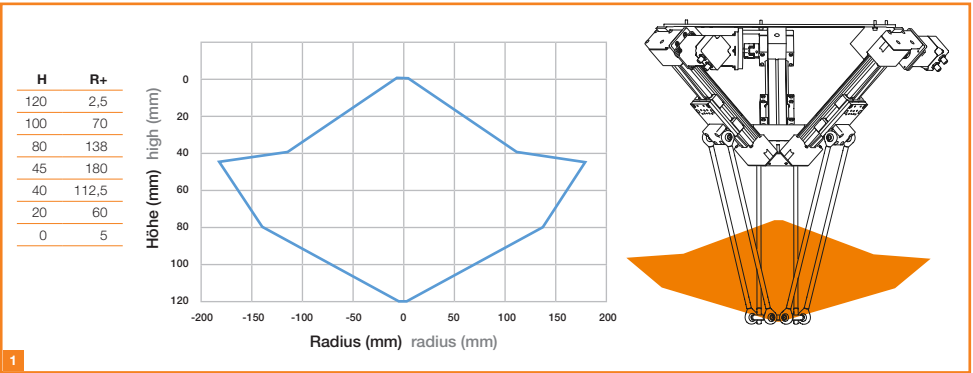
Technische Dokumentation Technical documentation
drylin®

DELTA ROBOT



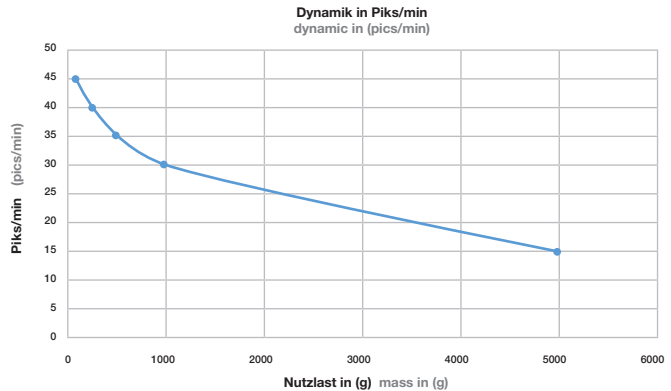
Technische Daten technical datas

| | | |
|--|---------------------|-------------------------|
| Positioniergenauigkeit accuracy | + - 0,5 | [mm] |
| Arbeitsraumdurchmesser bei 75 [mm] working space diameter at 75 [mm] | 360 | [mm] |
| Max. Nutzlast max. payload | 5 | [kg] |
| Max. Prozesskraft bei Radius 0 [mm] max. process force 0 [mm] | 100 | [N] |
| Dynamik dynamics with 500 [g] | mind. 60 min. 60 | Piks. (min) pics/min |
| Eigengewicht mass | 15 | [kg] |
| max. Bahngeschwindigkeit max. track speed | 3 | [m/s] |
| Max. Beschleunigung max. acceleration | 60 | [m/s ²] |
| Schrittmotor NEMA23 XL Stepper motor Nema 23 XL with | 24/48 4,2 | [V] [A] |



minimale Dynamik
minimum dynamics

| Nutzlast in (g) mass in (g) | Dynamik in Piks/min dynamic in (pics/min) |
|--------------------------------|--|
| 100 | 45 |
| 250 | 40 |
| 500 | 35 |
| 1000 | 30 |
| 5000 | 15 |

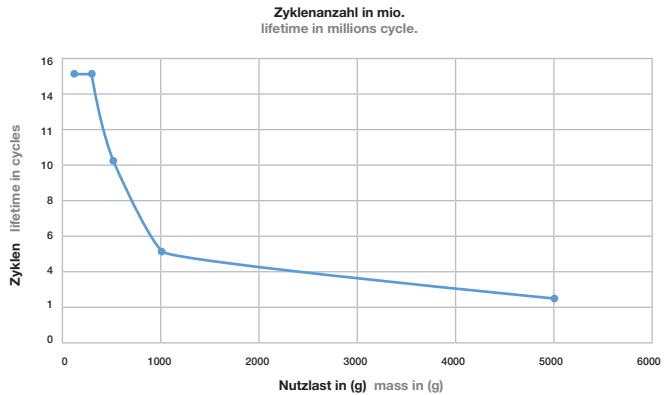


Höchste Pickraten können bei Verwendung von Master Steuerungen mit Bahnplanung erreicht werden. (Z.B. Sinus Beschleunigungsrampen und optimierte Motorregelparameter) Grafik gilt für Lastmotorspannung von 48 [V] und stabilen, schwingungssteifen Profil. You can get the highest (pics/min) by using a master controller with path planing function. (For example, Sinus acceleration ramp and optimized motor control parameters) Graphic as shown apply to a load motor voltage of 48 [V], to a stable and vibration-free frame.

3

minimale Lebensdauer

| Nutzlast in (g) mass in (g) | Zyklusanzahl in mio. lifetime in millions cycle. |
|--------------------------------|---|
| 100 | 15 |
| 250 | 10 |
| 500 | 5 |
| 1000 | 2.5 |
| 5000 | 1 |

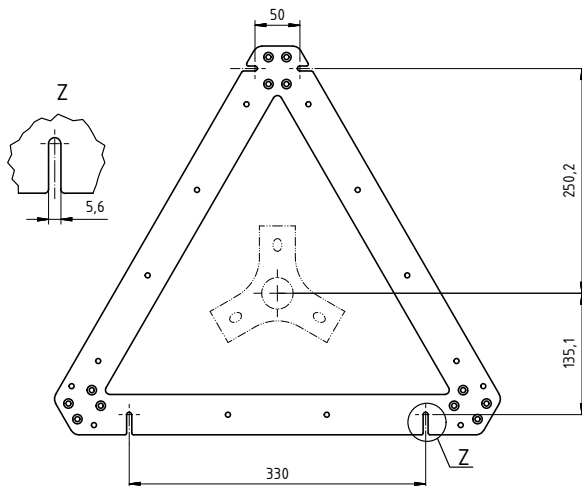


4

Anschlussmaße connecting dimensions

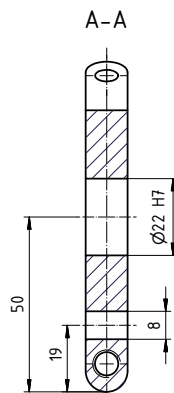
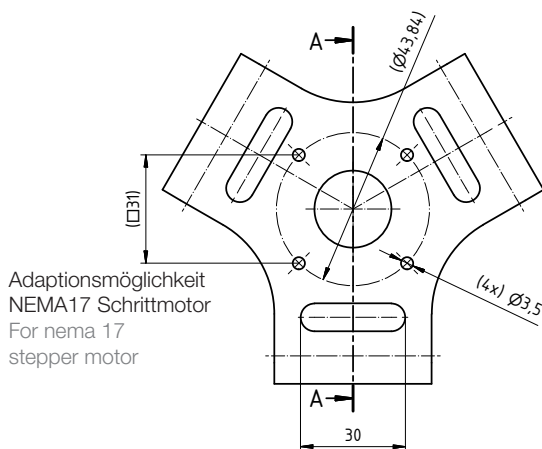
Artikelnummer ETY-DR-0008
article number

Beschreibung Aufnahmestern mit Anschlussmaßen
description flange panel



Artikelnummer ETY-DR-0009
article number

Beschreibung Aufnahmestern mit Anschlussbohrungen für Zubehör
description flange star with drillings for other equipment



Zubehör accessories

| | |
|--|---|
| Artikelnummer article number | D1 |
| Beschreibung description | <p>Dryve Steuerung D1, Motorsteuerung, Keine Softwareinstallation oder App nötig, für PC, Tablet oder Smartphone, Schritt-(ST), DC und EC Motoren mit bis zu 21A Spitzenströmen und 48 V DC, Digitale Ein-Ausgänge, Analoge Eingänge, CANopen, Modbus TCP zum Anschluss an Mastersteuerungen wie z.B. Siemens oder Beckhoff</p> <p>Dryve motor controller D1, a motor controller for multi-fold automation tasks without programming by simple parameterization for single axes, linear, flat and room linear robots and Delta robots no software installation or app needed, use by PC, tablet or smart phone Stepper (ST), DC and EC motors with up to 21A peak currents and 48 V DC, digital inputs/outputs, analogue inputs, CANopen, Modbus TCP for connection to master control systems such as Siemens or Beckhoff</p> |



| | |
|--|---|
| Artikelnummer article number | IK-0001-BG-3, IK-0001-BG-5, IK-0001-BG-10 |
| Beschreibung description | <p>Initiator kit, 24V, 0630/1040 NC/Öffner, inkl. Leitung in 3, 5 oder 10 m.</p> <p>initiator kit, 24V, 0630/1040 normally closed, with cable in 3, 5 or 10 meter</p> |



| | |
|--|--|
| Artikelnummer article number | AK-DR-0002 |
| Beschreibung description | <p>Kalibrierdorn für einfache Positionierung</p> <p>Calibrating pin for easy positioning</p> |



| | |
|--|---|
| Artikelnummer article number | ETY-DR-0017 |
| Beschreibung description | <p>Kabelclip für sichere Führung</p> <p>Cable clip for guidance</p> |

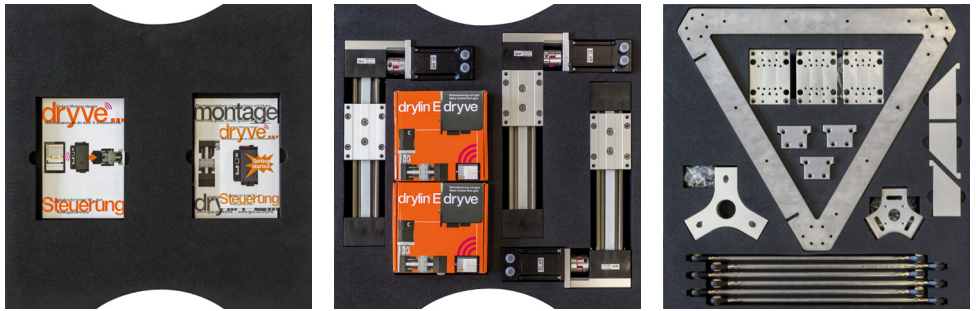


| | |
|--|---|
| Artikelnummer article number | MOT-ST-42-L-C-A |
| Beschreibung description | <p>Zur Anbindung an Aufnahmestern für zusätzliche Drehbewegung Spindelmotor NEMA17, Mo=0.5, Datenblatt unter Spindelschrittmotoren: https://www.igus.de/info/drive-technology-drylin-e-faq-data-sheets</p> <p>For flange star if turning movement needed steppermotor NEMA17, Mo=0.5, spindle motor/wires/encoder more information for spindle motors: https://www.igus.eu/info/drive-technology-drylin-e-faq-data-sheets</p> |

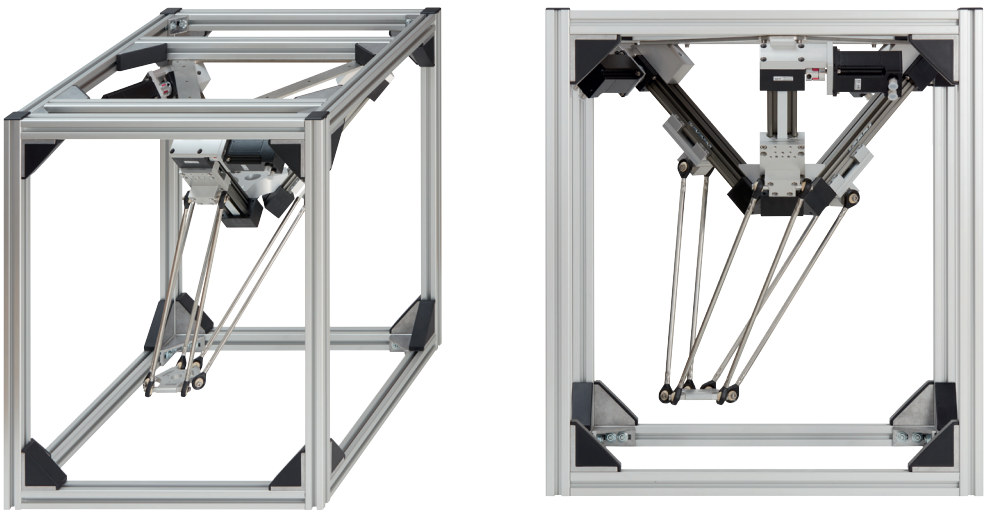
Leitungen cables

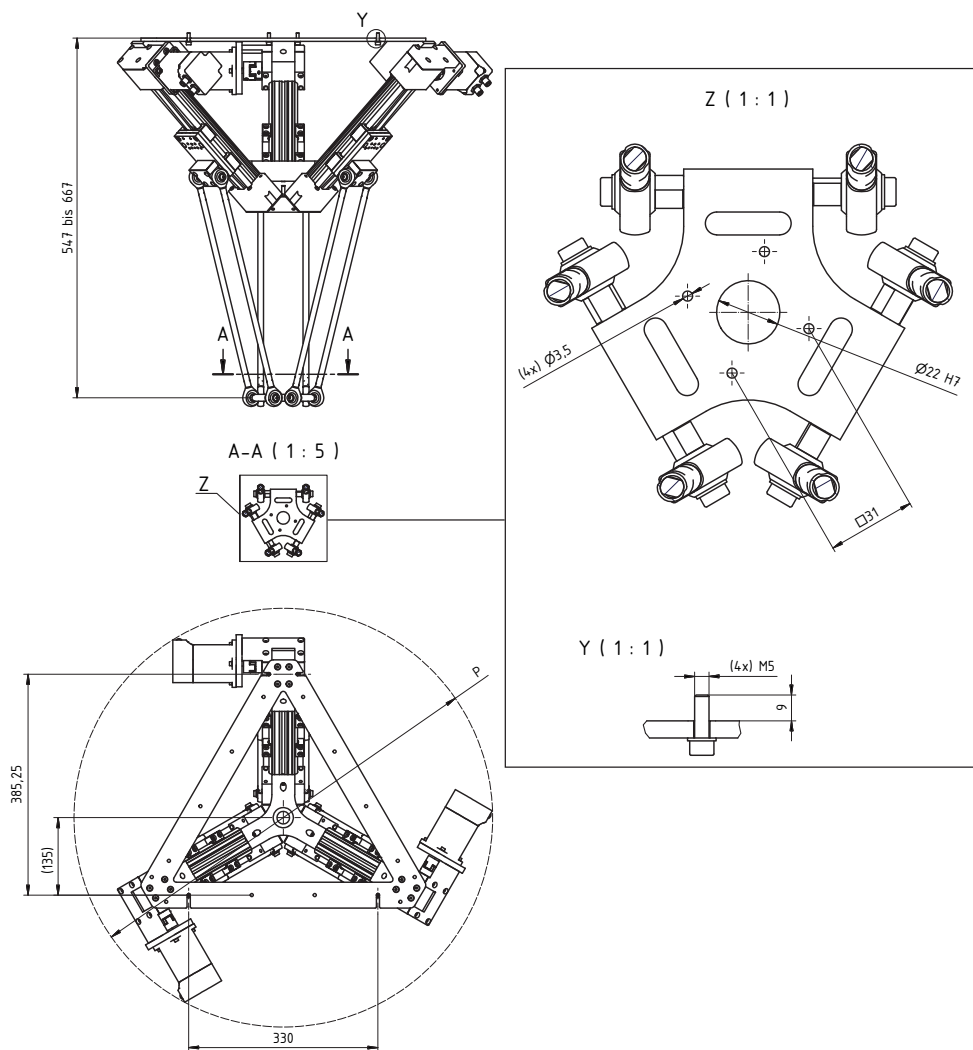
| | |
|--|--|
| Artikelnummer article number | MAT9043737, MAT9043738, MAT9043740 |
| Beschreibung description | Motorleitungen in 3, 5 und 10 m. motor cable in 3, 5 or 10 meter |
| Artikelnummer article number | MAT90432594-3, MAT90432594-5, MAT90432594-10 |
| Beschreibung description | Encoderleitung für NEMA23 in 3, 5 or 10 m encoder cable in 3, 5 or 10 meter |

Bausatz im Schaum Assembly kit

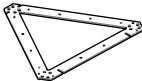


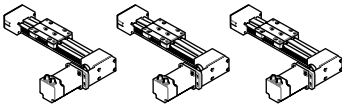
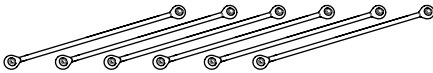
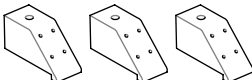
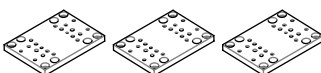
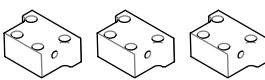
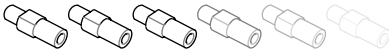
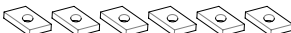



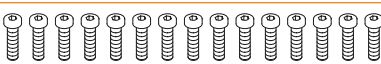






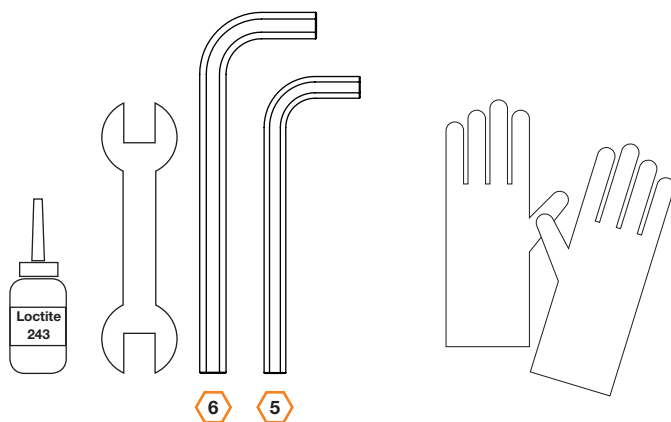
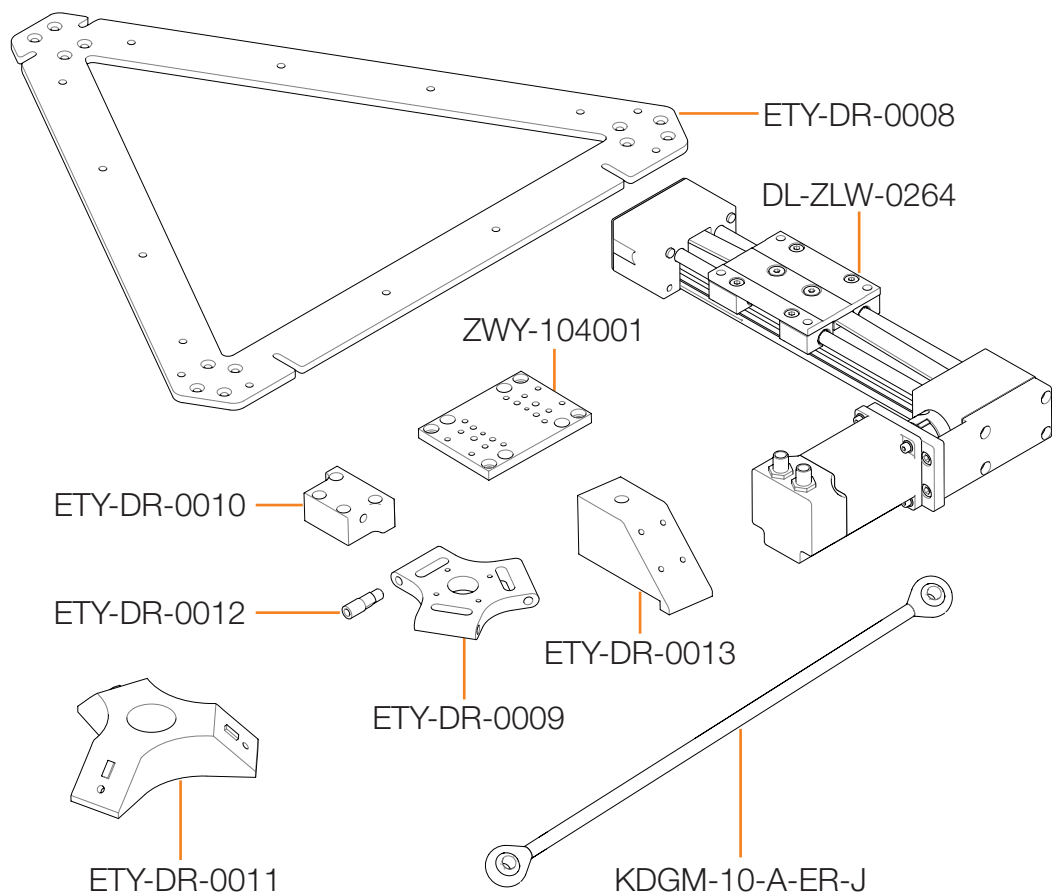
Montiert im Transportgestell Assembled Delta, in transport rack



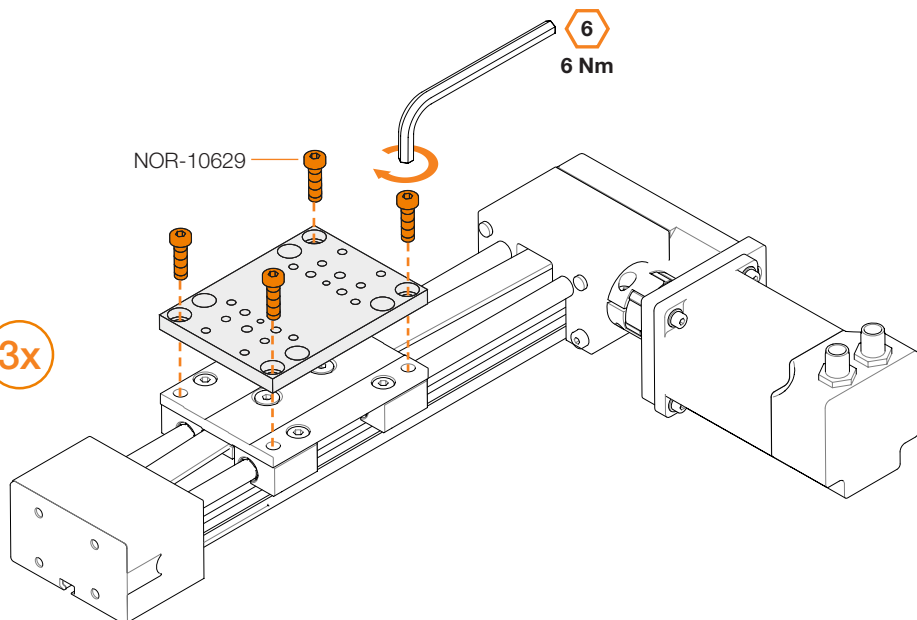


| Artikelnummer Article number | Bausatz Assembly kit | Montiert Assembled | Steuerungen Controller | Motoren Motors | P = Platzbedarf Space requirement |
|---------------------------------|-------------------------|-----------------------|---------------------------|-------------------|--------------------------------------|
| DLE-DR-0001 | ● | | | ● | 730 |
| DLE-DR-0002 | | ● | | ● | 730 |
| DLE-DR-0003 | ● | | ● | ● | 730 |
| DLE-DR-0004 | | ● | ● | ● | 730 |
| DLE-DR-0005 | ● | | | | 645 |
| DLE-DR-0006 | | ● | | | 645 |

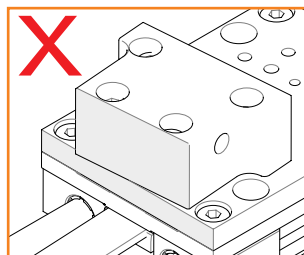
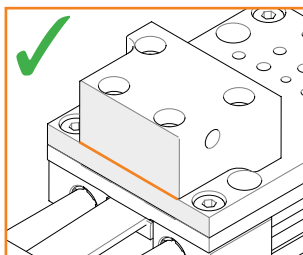
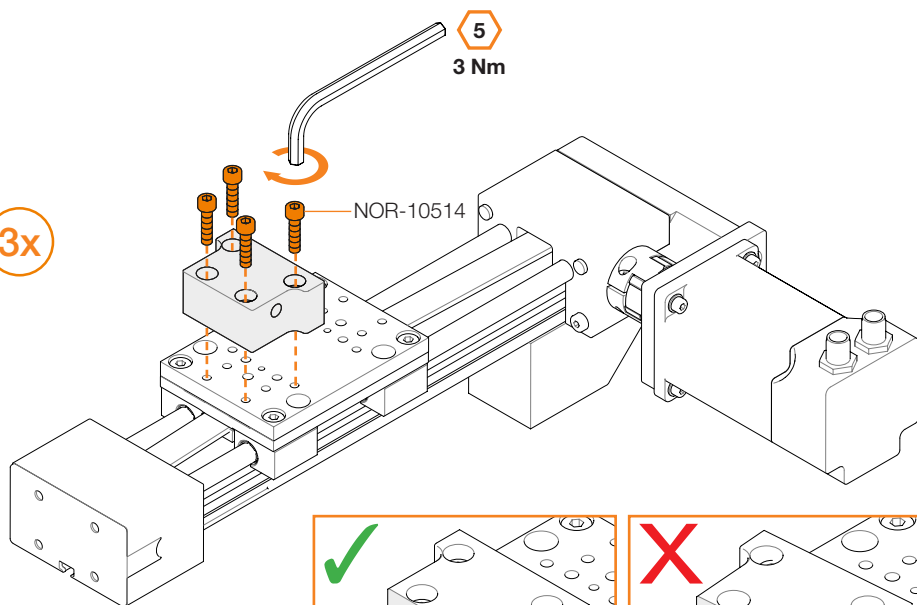
| | | | |
|--|----------------|----------|-----|
|  | ETY-DR-0008 | | 1x |
|  | ETY-DR-0011 | | 1x |
|  | ETY-DR-0009 | | 1x |
|  | DL-ZLW-0264 | | 3x |
|  | KDGM-10-A-ER-J | | 6x |
|  | ETY-DR-0013 | | 3x |
|  | ZWY-104001 | | 3x |
|  | ETY-DR-0010 | | 3x |
|  | ETY-DR-0012 | | 12x |
|  | NOR-20602 | 20/12-M5 | 6x |
|  | NOR-11030 | 6x12x1 | 12x |
|  | NOR-11013 | M5, A2 | 4x |
|  | NOR-10513 | M5X16 | 4x |
|  | NOR-10514 | M5x20 | 15x |
|  | NOR-10610 | M5x12 | 3x |
|  | NOR-10628 | M5x12 | 12x |
|  | NOR-10629 | M6x20 | 12x |
|  | NOR-10737 | M5x14-A2 | 12x |



1 3x

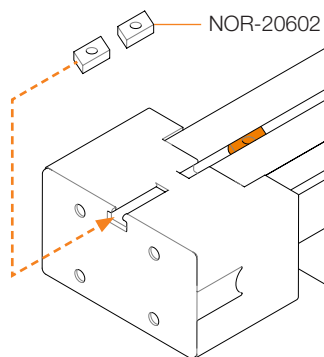


2 3x



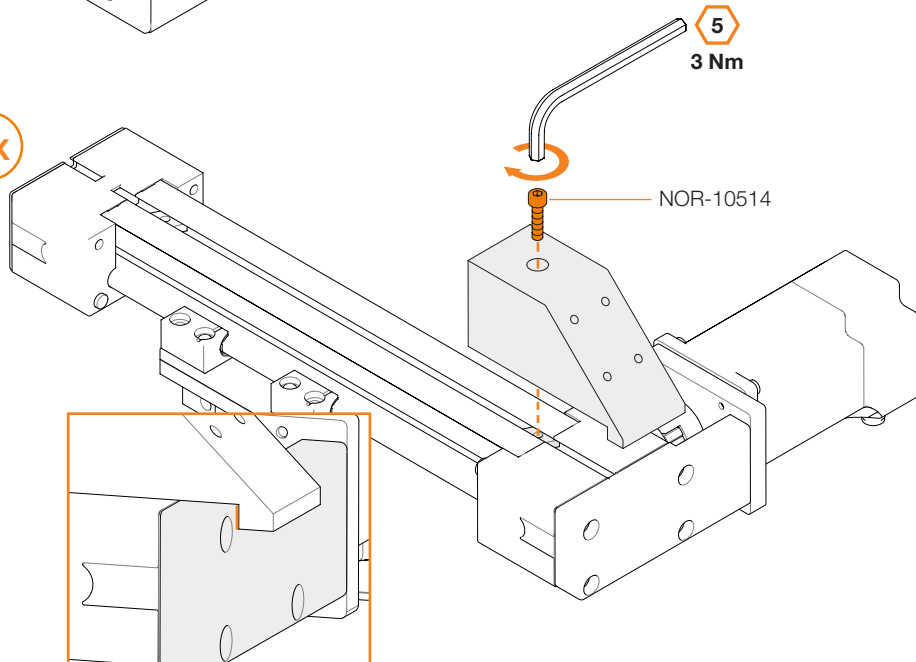
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3x

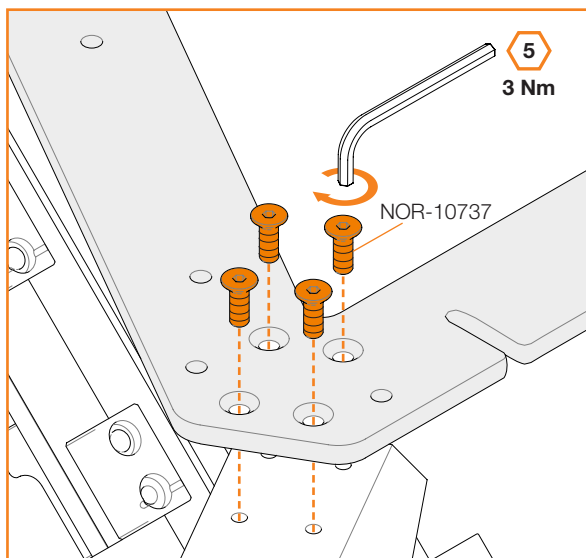
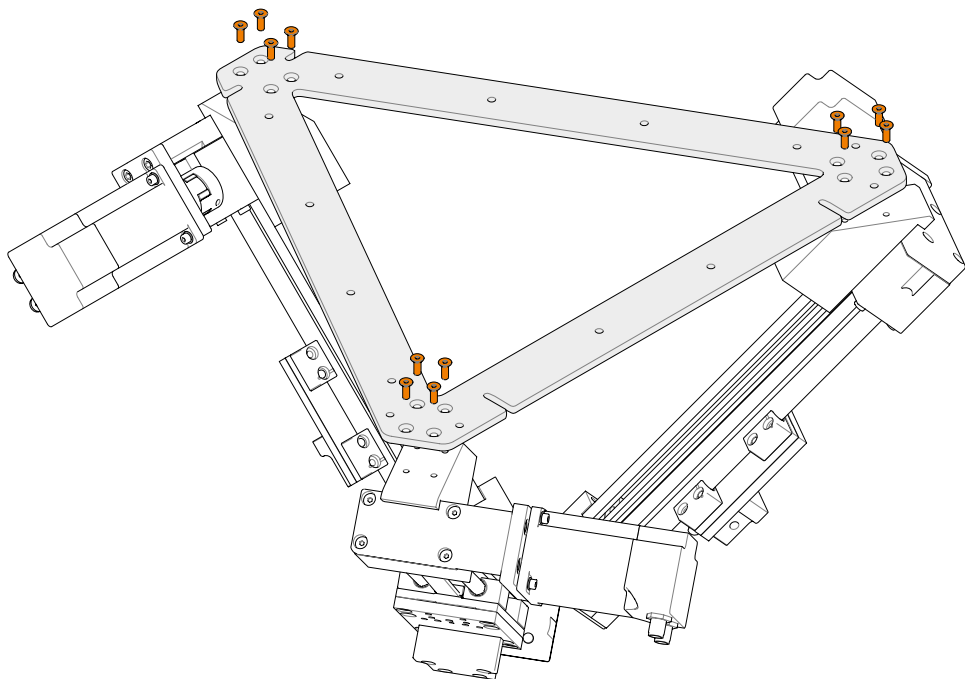


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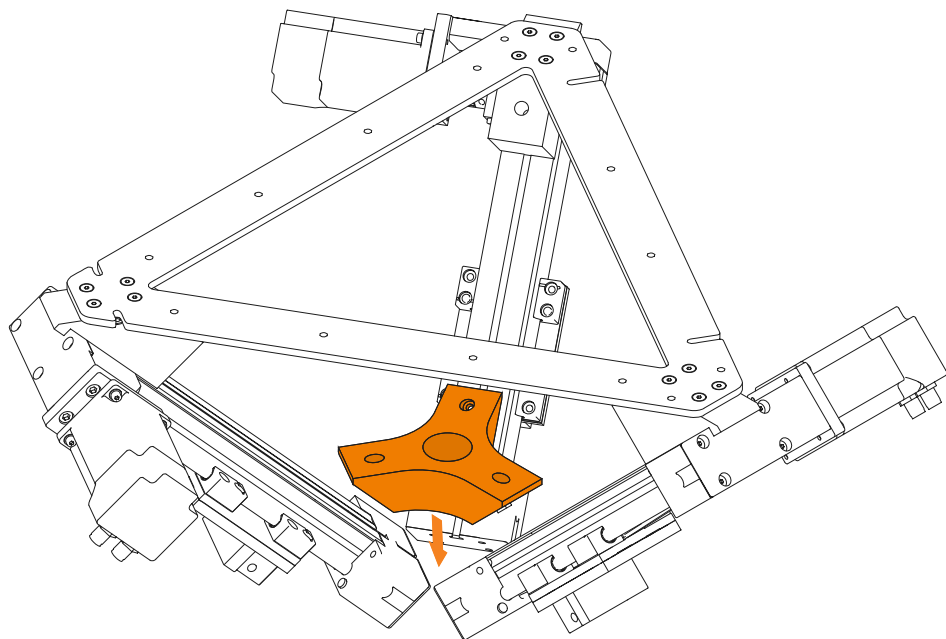
3x



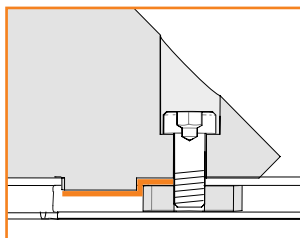
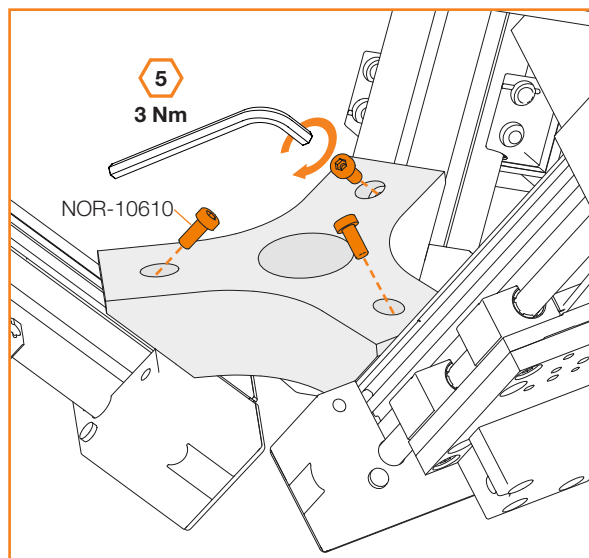
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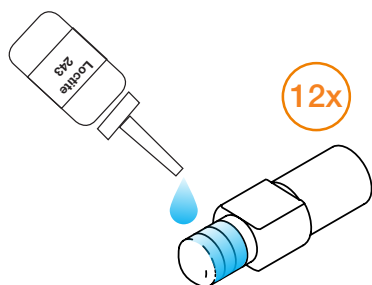
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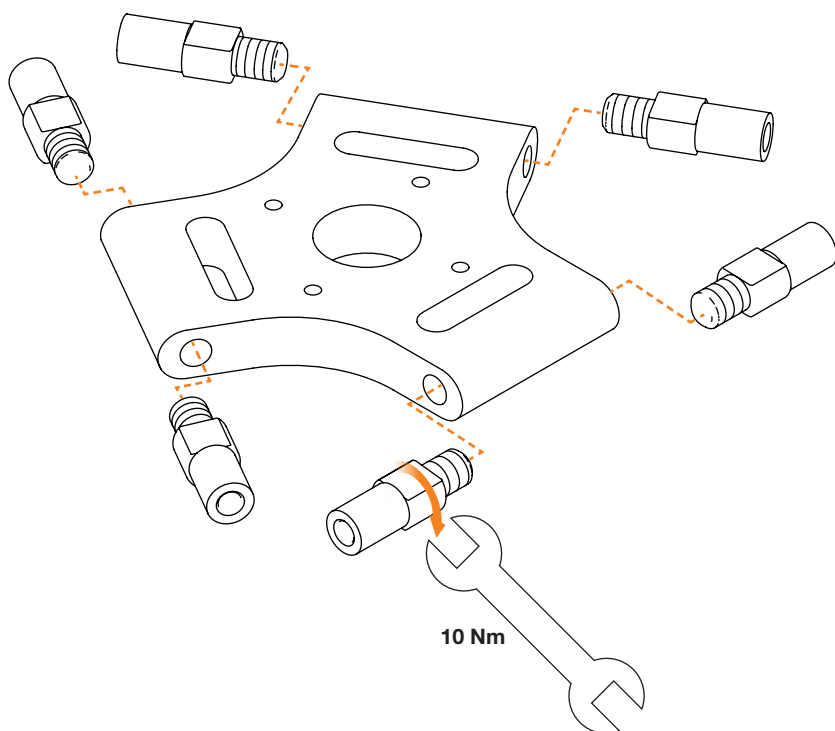
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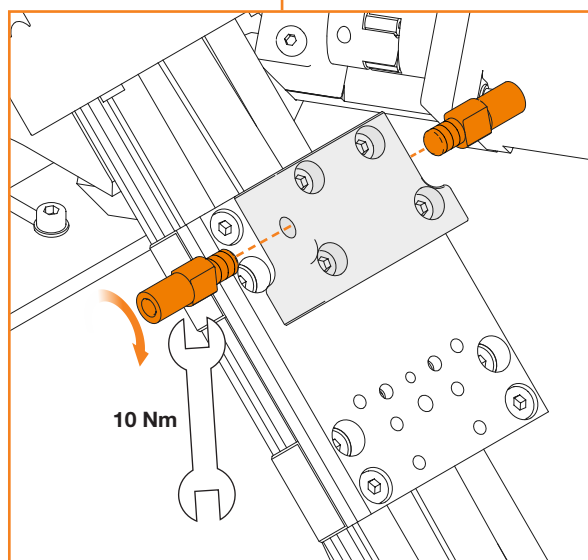
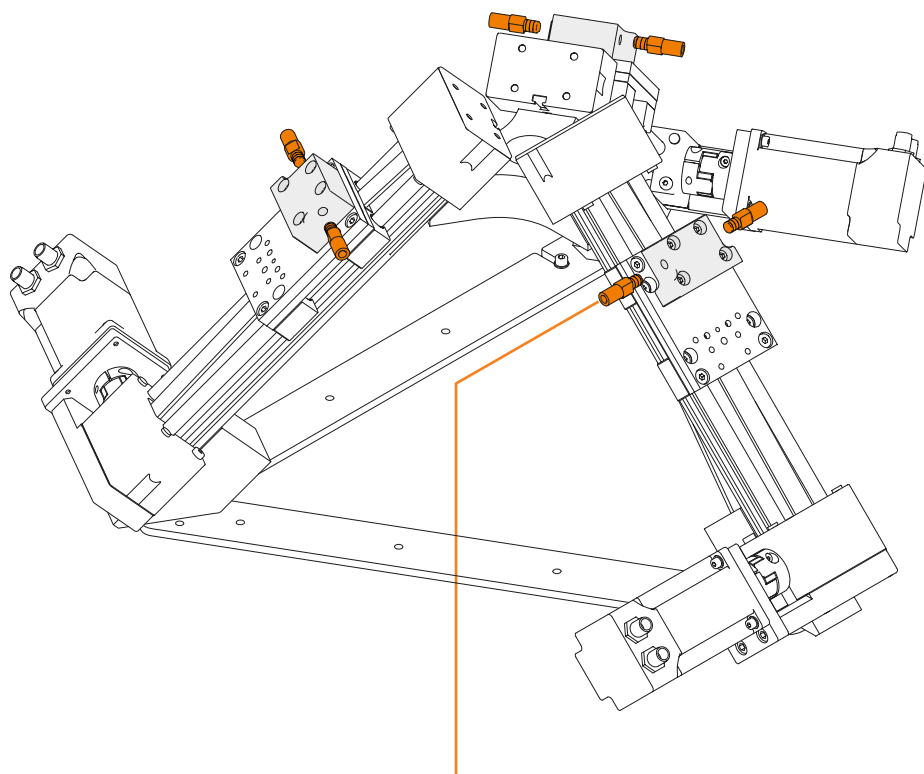
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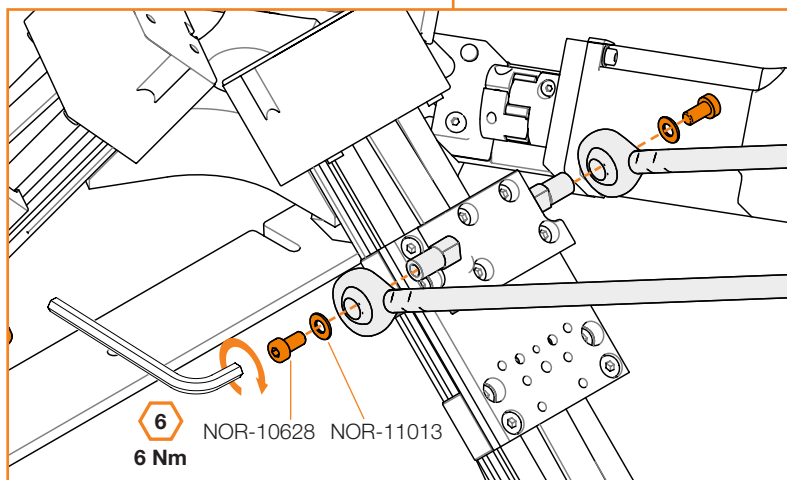
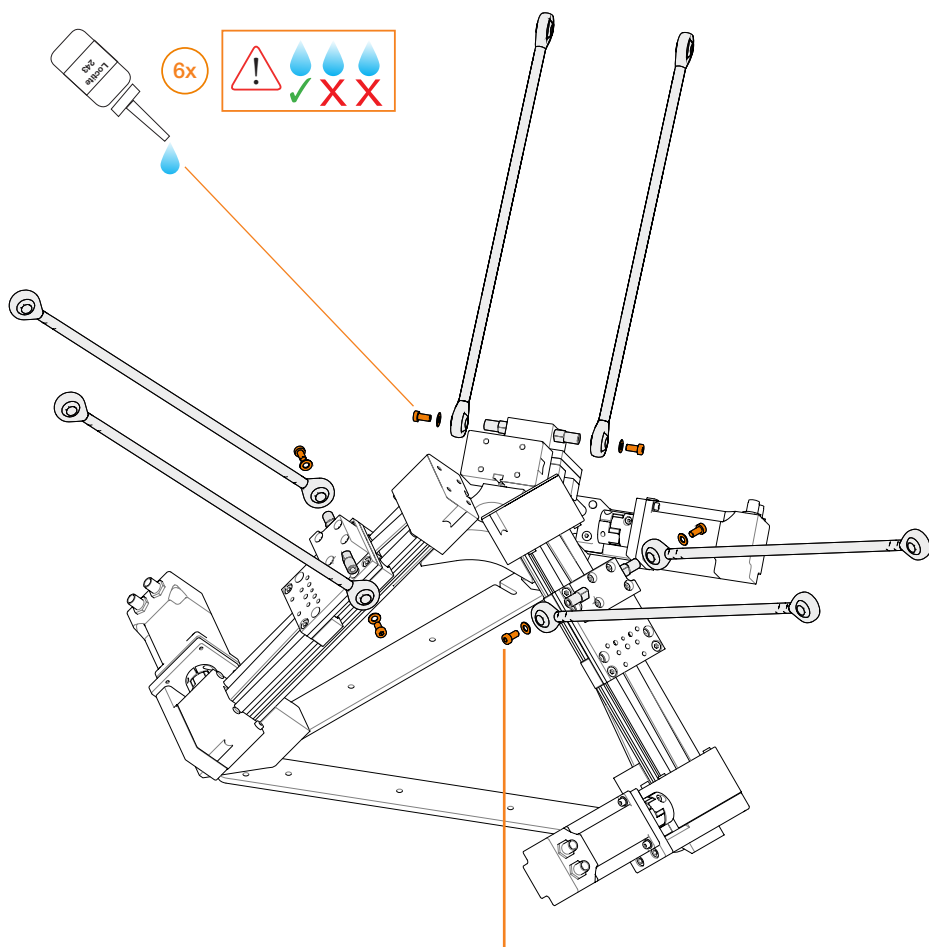
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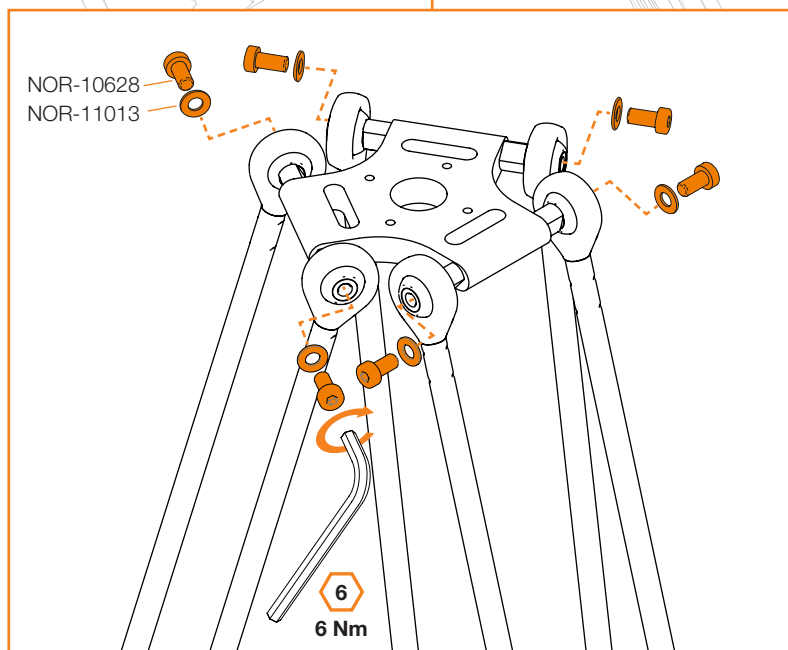
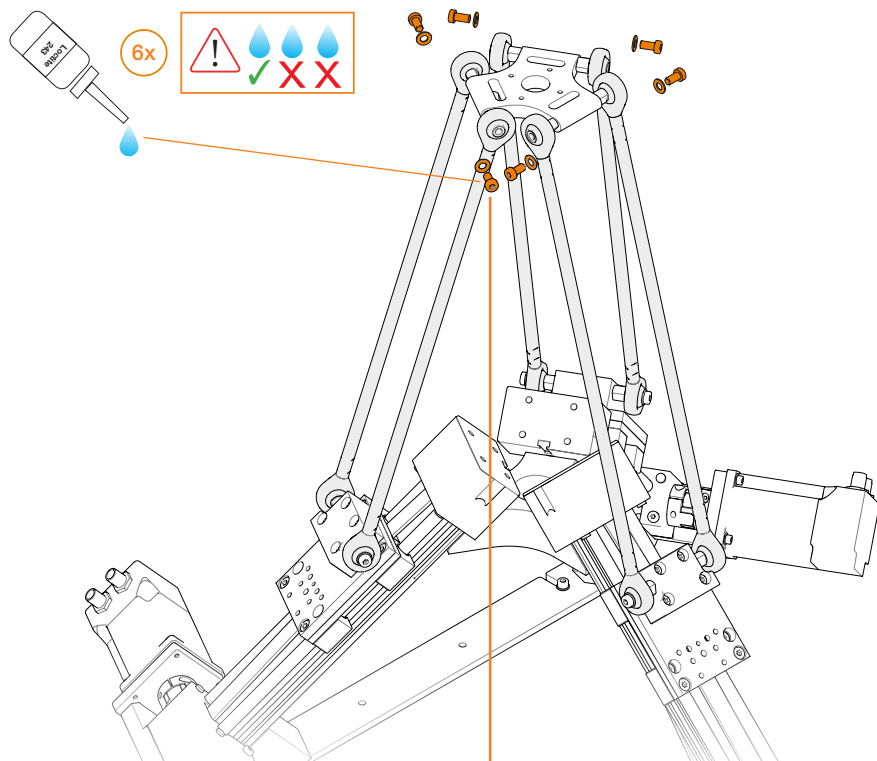
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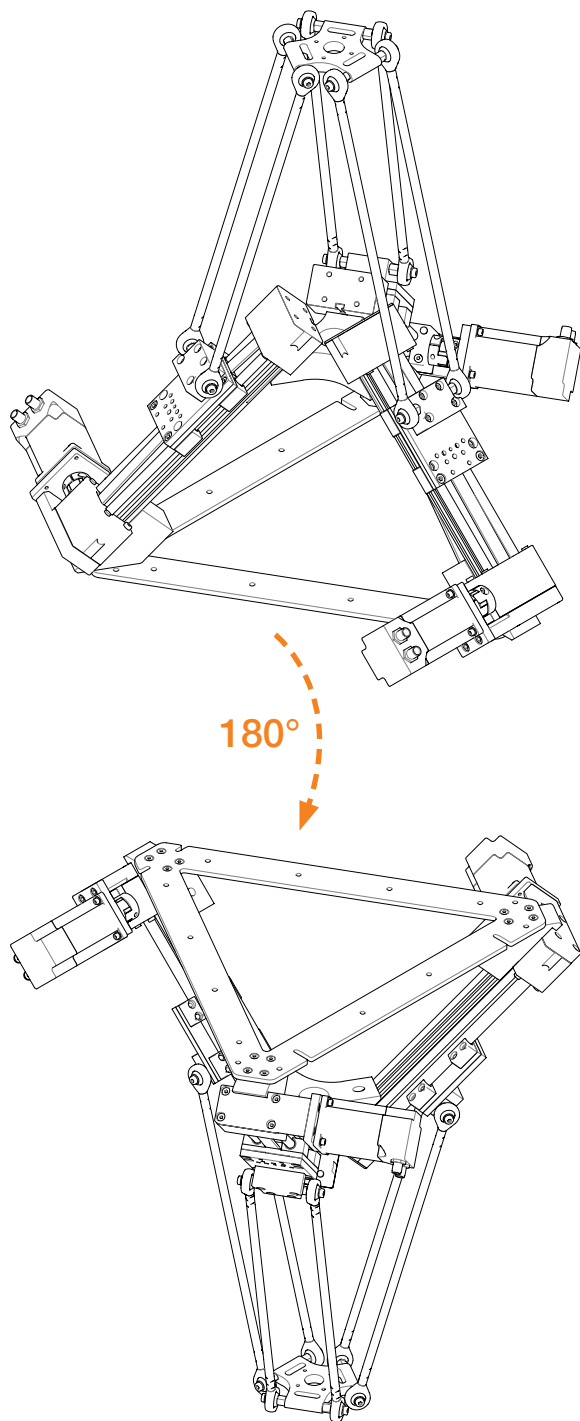


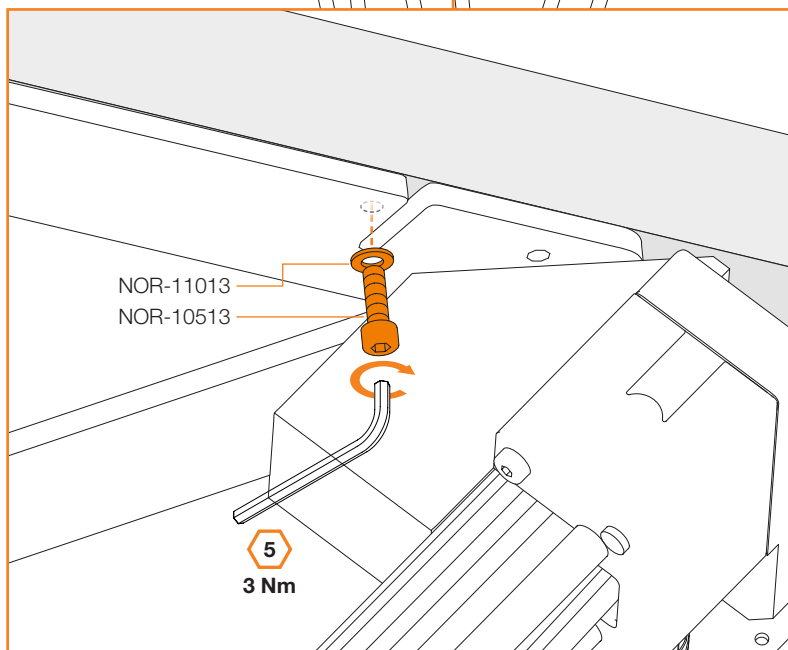
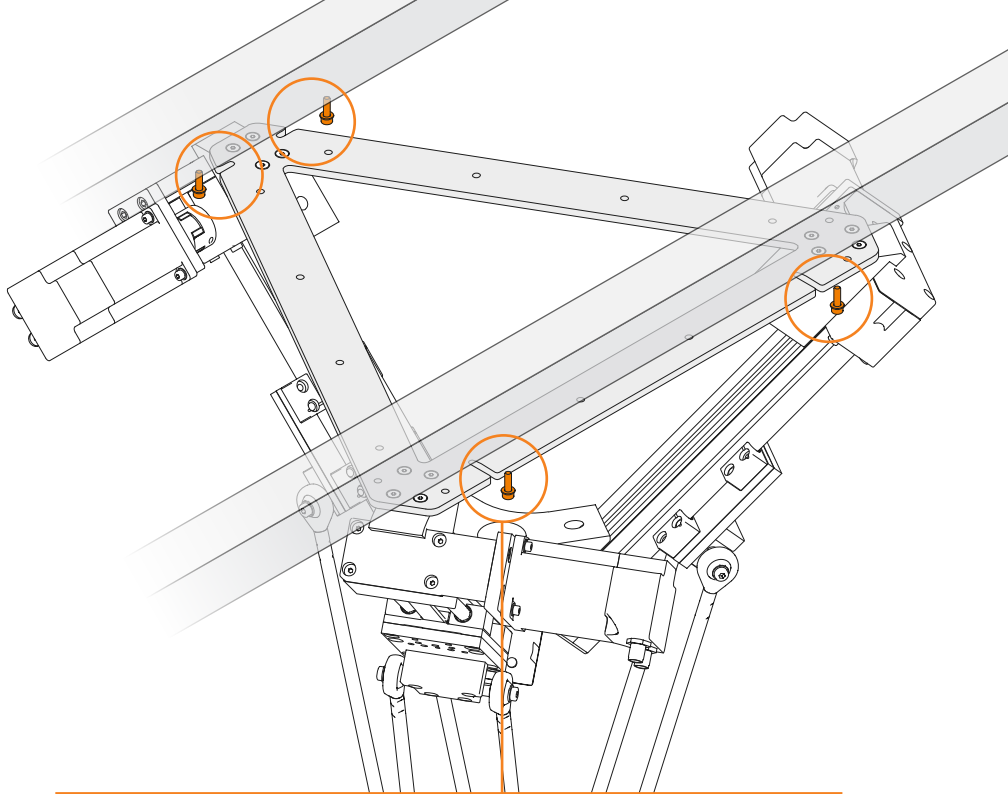
11



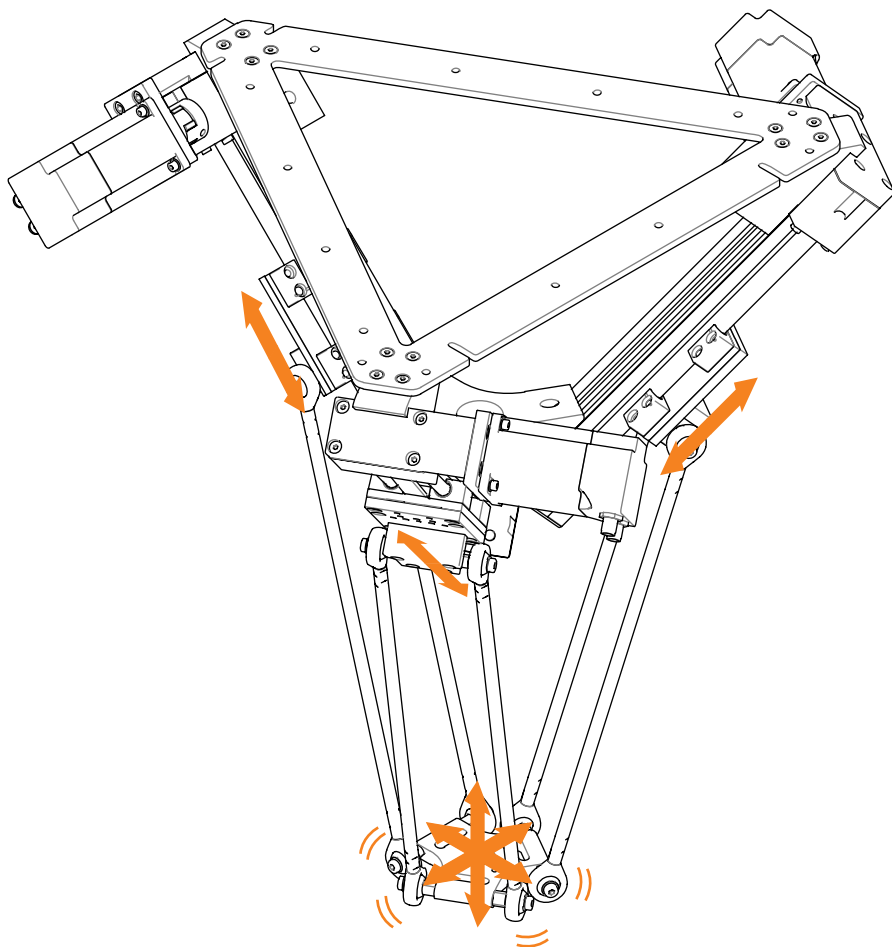
12







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