



QuoteMaster® User Guide – Main Aux Hoist on Common Trolley



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(Click on the *QuoteMaster® Support* icon found on the homepage  → Click on **Instructions** → Click on **QuoteMaster User Guide – Main Aux Hoist on Common Trolley**)

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(Revision date in lower right corner; reprint new copies as needed.)



QuoteMaster® User Guide – Main Aux Hoist on Common Trolley

General page –

Crane Basic Data specification:

- Select **“QXD Double Girder”**
- Select **“Standard Delivery”** in the crane range.
- “Number of trolleys” is always 1 for THT calculations.
- Enter crane capacity in the Load of crane.
- Specify the span.

The screenshot shows the 'Technical Calculation - THT (Not ready)' window with the following settings:

- Crane Basic Data:**
 - Type: QXD Double girder
 - Crane range: Standard Delivery
 - Number of trolleys: 1 pcs
 - Hoist use: I
 - Load of crane: 60000 lbs
 - Lifting height of crane: 20'-0"
 - Span: 40'-0"
 - Runway rail length: 0"
- Environment:**
 - Main use: Indoors
 - Min./Max. ambient temp.: 41 / 104 °F
 - Humidity: Normal
 - Air purity: Normal
- Duty Groups:**
 - Crane standard: CMAA
 - Crane: C
 - Machinery standard: CMAA / ASME
 - Bridge machinery: CMAA C
- Hoist:**
 - Hoist model: SX
 - Hoist type: [Empty]
 - Reeving type: A/S
 - Load of hoist: 60000 lbs
 - Hoisting speed high / low: A/S / 0 ft/min
 - Hoist speed control: 2-speed
 - Duty group: A/S
- Trolley:**
 - Trolley type: Double
 - Trolley model: Two hoists on trolley
 - Main-Aux hoist use: Main_Aux
 - Trolley speed high / low: A/S / 0 ft/min
 - Trolley speed control: CMXC / Stepless
 - Duty group: CMAA C
 - Trolley turned: Normal
- Bridge:**
 - Girder type: Profile
 - Bridge speed high / low: 100 / 0 ft/min
 - Bridge speed control: CMXC / Stepless
 - Service platform: No
 - Main girder stiffness level: Normal

Buttons on the right side include: Crane calculation, Parameters, Crane Additional, Pricing, Component order, Undo calculation, Reset fields, Print, Instructions, Save/Close, Crane production: Firms, Show hoist cost, English, System of units: US-units, e.g. 30'-4 1/8"



QuoteMaster® User Guide – Main Aux Hoist on Common Trolley

General page –

Hoist specification:

- Select the desired hoist speed control for main hoist. **“2-speed”** is default. Inverter control for main hoist is an option.
- Enter the hoist capacity in the Load of hoist.

Trolley specification:

- Select **“Two hoists on trolley”** as the trolley model.
- Select the desired selector switch in the **Main-Aux hoist use**.

Main, Aux = Hoist I or Hoist II, **V2** selector switch

Main + Aux = Hoist I or Hoist II or Hoist I+II, **V3** selector switch

Technical Calculation - THT (Not ready)

General | Building | Hoists | Steel Structure | End Carriages and Drives | Electrical Components | Documents and Notes

Crane Basic Data

Type: QXD Double girder
Crane range: Standard Delivery
Number of trolleys: 1 pcs
Hoist use: I
Load of crane: 60000 lbs
Lifting height of crane: 20'-0"
Span: 40'-0"
Runway rail length: 0"

Environment

Main use: Indoors
Min./Max. ambient temp.: 41 104 °F
Humidity: Normal
Air purity: Normal

Duty Groups

Crane standard: CMAA
Crane: C
Machinery standard: CMAA / ASME
Bridge machinery: CMAA C

Left - I | Middle - III | Right - II

Hoist

Hoist model: SX
Hoist type:
Reeving type: A/S
Load of hoist: 60000 lbs
Hoisting speed high / low: A/S / 0 ft/min
Hoist speed control: 2-speed
Duty group: ASME H4

Trolley

Trolley type: Double
Trolley model: Two hoists on trolley
Main-Aux hoist use: Main, Aux
Trolley speed high / low: Main, Aux
Trolley speed control: CMXC Stepless
Duty group: CMAA C
Trolley turned: Normal

Bridge

Girder type: Profile
Bridge speed high / low: 100 / 0 ft/min
Bridge speed control: CMXC Stepless
Service platform: No
Main girder stiffness level: Normal

Crane calculation
Parameters
Crane Additional
Pricing
Component order
Undo calculation
Reset fields
Print
Instructions
Save/Close
Crane production:
Rms
Show hoist cost
English
System of units:
US-units
e.g. 30'-4 1/8"



QuoteMaster® User Guide – Main Aux Hoist on Common Trolley

Hoist Additional Features -

- “Main hoist” checked – adds additional features only to main hoist. See Note.
- “Auxiliary hoist” checked – adds additional features to auxiliary hoist. See Note.
- “Main hoist” and “Auxiliary hoist” checked – adds additional features you select to both main and auxiliary hoists.

Note:

Some of the additional features are designated to add to both hoists even if the additional feature was selected for one hoist – see page 7 for those features.

Additional features [General]

Component Additional

Available additional features:

Name in English:	Name in local language:	System Id:
Second disk brake on the hoist	Second disk brake on the hoist	BRA01
Manual brake release for trolley motor	Manual brake release for trolley motor	BRA05
Buffer extension between trolleys	Bumper extension between trolleys	DES29
Hoist without electrical controls	Hoist without electrical controls	ELE65
Special lubricant for gears	Special lubrication for gears	GE21
Additional cover plate for hoisting unit	Additional cover plate for hoisting unit	GE24
IP66 hoist motor protection	IP66 hoist motor protection	HM04
Insulation class H hoisting motor	Insulation class H hoisting motor	HMT2
DIN hook	DIN hook	HOK09

Main hoist
 Auxiliary hoist

System Id: BRA01
Name in English: Second disk brake on the hoist
Name in local language: Second disk brake on the hoist
Print to offer/order confirmation:
Component group: Hoist
Net cost of additional feature/pc: 0
Quantity of additional features: 1
Exact type code of additional:
Suits for: Quick delivery
Type of additional feature: Standard
Optional
Make new
Add new

Selected additional features:

Name in English:	Name in local language:	System Id:
Overload protector	Overload protector	LDA02
HoistMonitorSelect	HoistMonitorSelect	HS12
Electronics for hoist control allowed	Electronics for hoist control allowed	HS11
HoistMonitorElite	HoistMonitorElite	HS13
Second hoist on trolley	Second hoist on trolley	PRI12
Mechanical overload device	Mechanical overload device	LDA08

Currency: US \$
Help Close



QuoteMaster® User Guide – Main Aux Hoist on Common Trolley

Hoist page -

Hoist selection:

- Main hoist is listed first in the selection list.
- Select the needed hoist combination - keeping in mind the hoist type, lift, and capacity of the main and auxiliary hoists as well as the hoist control type of auxiliary hoist.

Two-speed hoist motor: P1...P8

Inverter hoist motor: T2...TA

- Control combinations for THT
 - Two-speed main, two-speed aux.
 - Inverter main, inverter aux.
 - Inverter main, two-speed aux.

Technical Calculation - THT (Not ready)

General | Building | **Hoists** | Steel Structure | End Carriages and Drives | Electrical Components | Documents and Notes

Left | Middle | Right

Hoist Browsing Criteria

Load of hoist: 50000 Crane HCL: 0" Reeving type: A/S Trolley type: Double

Duty group: A/S Hoist speed control: 2-speed Hoisting speed high / low: A/S / 0

Trolley version: Standard Rail gauge: Standard

Selected Hoist

Code: SX60610250P6 Motor: P6 Load: 00U Duty: H4 Hot: 22'-11" Hoisting spd: 10/1.5 Trolley spd: 65/16 Trolley type: D Reeving: A Cost: 47706

Available Hoists

Hoist Type	Motor	Fr. Lot	Gauge	Max. Load	Group	Hoi. Height	Hoi. Spd	Trv. Spd	Tro.	Reeving	Costs
SX60610250P6	P6	DE	66.93	50000	H4	22'-11"	10/1.5	65/16	D	A	47706
SX40410050P3	P3	CF	66.93	10000	H4	29'-6"	20/3.1	65/16	D	A	47706
SX60610250P6	P6	DE	66.93	50000	H4	22'-11"	10/1.5	65/16	D	A	47706
SX40410040P3	P3	CF	66.93	8000	H4	29'-6"	20/3.1	65/16	D	A	47706
SX60610300P6	P6	DE	66.93	60000	H3	22'-11"	10/1.5	65/16	D	A	47706
SX40410040P3	P3	CF	66.93	8000	H4*	29'-6"	20/3.1	65/16	D	A	47706
SX60610300P6	P6	DE	66.93	60000	H3	22'-11"	10/1.5	65/16	D	A	47706
SX40410050P3	P3	CF	66.93	10000	H4	29'-6"	20/3.1	65/16	D	A	47706
SX60610250P6	P6	EE	66.93	50000	H4	29'-6"	10/1.5	65/16	D	A	48308
SX40410050P3	P3	CF	66.93	10000	H4	29'-6"	20/3.1	65/16	D	A	48308
SX60610250P6	P6	EE	66.93	50000	H4	29'-6"	10/1.5	65/16	D	A	48308
SX40410040P3	P3	CF	66.93	8000	H4*	29'-6"	20/3.1	65/16	D	A	48308
SX60610300P6	P6	EE	66.93	60000	H3	29'-6"	10/1.5	65/16	D	A	48308
SX40410050P3	P3	CF	66.93	10000	H4	29'-6"	20/3.1	65/16	D	A	48308
SX60610300P6	P6	EE	66.93	60000	H3	29'-6"	10/1.5	65/16	D	A	48308

Number of available hoists: 232

Hoist Additional: A/S Hoist Select Latest Search Select

Crane calculation
Parameters
Crane Additional
Pricing
Component order
Undo calculation
Reset fields
Print
Help
Instructions
Save/Close
Crane production:
Firms
 Show hoist cost
English
System of units:
US-units
e.g. 30'-4 1/8"

To list inverter main, two-speed aux hoists, change parameter *ThtAuxHoiCtrTyp* to 0. Click "Parameters" to find the parameter list.



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Standard THT Features -

Standard features for THT

Double girder trolley, standard connection – four-wheel or six-wheel bogie arrangement

Minimized hook-to-hook distance

Pushbutton pendant with V2 (two position) selector switch, V3 (three position) switch as an option

HoistMonitor and strain gage overload on each hoist

Separate control enclosures mounted on trolley

NEMA 3R/IP55 rated control enclosures

Two-speed hoist controls, inverter trolley controls

Standard Safety Features –

The *Summing Overload Protection* feature through the HoistMonitor summarizes the load on the hooks to prevent against damage from attempts to lift an over-capacity load. This feature also prevents the lowering of the load block on the main hoist if the overload device on the auxiliary hoist is activated. This restriction reduces the further risk of damage to the overloaded hoist.



QuoteMaster® User Guide – Main Aux Hoist on Common Trolley

Hoist Additional Features -

Summary of additional features if selected for one hoist are automatically added to both hoists.

- Heavy duty wire rope - RR09
- Standby heating for hoist control panel - PAN02
- IP66 hoist motor protection - HM04
- Class H insulation for hoist motor - HM12
- DIN style hook - HOK09
- Light and horn for overload indication - LOA05
- Red light for overload indication - LOA07
- Second disc brake on hoist (SX2-SX5 hoists) - BRA01
- Slack rope supervision - HS16
- Hoist operating control limit switch - HS22
- 2-step load limiter - LIM07
- 3-step load limiter - LIM08
- Operating limit switch with bypass - LIM17
- Standby heating for hoist motor - MOT03

More additional features are available.



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The following additional features are **not supported** by QuoteMaster® for main / aux on a common trolley.

Hoist drum brake – HS07

Load display – HS09

Load display - individual or total load (2 hoists only) – HS28

One step smaller gage – PRI06

High connection double girder trolley – PRI08

Low connection double girder trolley – PRI09

Trolley contactor control – PRI02

Trolley anti-collision device – TR16

Full range of hoist speed options

Contact R&M for assistance.



QuoteMaster® User Guide – Main Aux Hoist on Common Trolley

Print Manager -

Drawings:

- The offer drawing for main/aux hoist is available only through DAS. DAS drawings are to scale.
- Check “**Offer drawing**” and then click the “DAS” button.
- Instructions on how to use DAS is available on R&M’s web site www.rmhoist.com.

