

botmaq

**MULTIPURPOSE FORK LIFT TRUCK
WITH VERTICAL MAST**

B30 MP

**B30 MP
2WD & 4WD**

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Stability and Security

From the very beginning of the design and conception stages, until the first prototype development and operation tests are carried out, the most restrictive worldwide normatives about security and stability have been applied, which is translated into a unique sensation of solidity, confidence and quality.

The axles load distribution, the lower position of the gravity center and the stiffness of the main structure have been studied meticulously, to be able to guarantee an overturn resistance over the higher required levels.

The Over Head Guard Protection (OHGP) meets ROPS, TOPS and FOPS, offering a minimum security volume in case of an accident. All the steels used in the frame and cabin construction are high resistance type, and are treated to resist the most hard environmental conditions.

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Comfort and Ergonomy

The driving position, the pedals and levers distribution, and the interior cabin volume allow a comfortable and relaxed posture throughout the work journey, and offer the operator an exceptional ride comfort.

Thanks to a series of noise and vibration isolation technologies, a maximum level of 80 dB (A) is reached inside the cabin, and an imperceptible level of engine vibrations is noticed by the operator aswell.

The joysticks are integrated in the right side of the seat, and include all the basic functions of the forklift (mast, inching, horn and gear shift). This allows the operator to leave one hand on the steering wheel and the other one over the joysticks, during the normal work operations. Besides, as it is fixed to the seat (with height and tilt regulation), the seat suspension movements do not change the joystick position respect the operator's arm.

As an option, the seat can tilt horizontally 20° to each side, to make rear movements easier, and to reduce the operator neck stress. On the other hand, as the cab is completely simmetric, the operator can access and leave the forklift from both sides without any problem at all.

The steering, hydrostatically driven, is low torque actuation type, and needs only 3 turns from side to side, which makes even lower the effort to drive the forklift.

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Linde Made in Germany

Type HPV75-02 0000
Serial No. H2X263B06375

Efficiency and maneuverability

The Lindrive® transmission gives and travel softness and non step control, which guarantees the optimal control of the forklift during load handling operations, specially at high heights.

In 4WD version, the free power flow to each of the wheels reduces the wear of the tyres because of the grip between front and rear axles. For specially hard situations, a high pressure flow divider controls the power delivered to each wheel, reducing pressure for the spinning tyres, and applying high torque to those with grip enough.

The easy drive and gear shifting in the joystick make unnecessary to brake, using it only for emergency situations; in this way, the operator does not have even to move his foot from the accelerator during the different forklift movements. The hydrostatic brake is quite enough to stop the forklift in some meters, just by releasing the accelerator, or pushing the inching button included in the joystick.

The transmission system gets the maximum performance from the engine without reaching high revolutions, which permits fuel saving, noise level reduction and engine life increase.

If the space to turn the forklift is a problem, there is no need to discard 4WD version, due to it offers exactly the same turning ratio of the 2WD version. The exclusive design of the 4WD rear axle, with hydraulic wheel motors, has made this possible, offering the operator a maneuverability and efficiency without equal.

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to make some equipment profitable. Because of this, all the known suppliers of forklift parts, who offer technical assistance. This transmits reliability and confidence on the equipment. The equal.

great accesibility to the maintenance parts of the forklift

guarantees the operating temperature is always below the normal. It works without any additional electrofan, using the air circulation of the engine. It reduces the consumption of fuel, the weight of the forklift and the noise emitted by electrofans, and keeping the operating conditions.

The engine is cooled through an over dimensioned water cooler, which guarantees the operating temperature is always below the limits, no matter if the outer temperature is up to 50°C. Besides, the oil cooler works without any additional electrofan, using the air flow of the engine, reducing in this way the electrical consumption of the forklift and the noise emitted by electrofans, and keeping the oil temperature within its optimum level, even with the hardest working conditions.

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Multipurpose concept

The multipurpose concept refers to the capability of the forklift truck to work in many different areas, with a great performance no matter how hard the conditions are.

How can this be? We have studied all the specifications of the best forklifts in the world, specialized in each area (industrial and rough terrain types), determining the characteristics that makes a forklift work well in an industrial environment or off highway surfaces. After that, we have combined such information, to prepare the basis of the design of our product.

For example, the free distance to the ground (250 mm) is as high as the rough terrain types, and yet we keep a very low center of gravity, by using a distributed weight in the forklift, giving it an excellent stability. On the other hand, our machine is the only one without a single point but the wheels under the specified free distance to the ground, so you can be sure no damage can occur to any component.

We have designed such an amazing steering axle for the 4WD model, that reaches the same turning radius than 2WD version. You won't have to choose a 2WD because of the turning radius any more!

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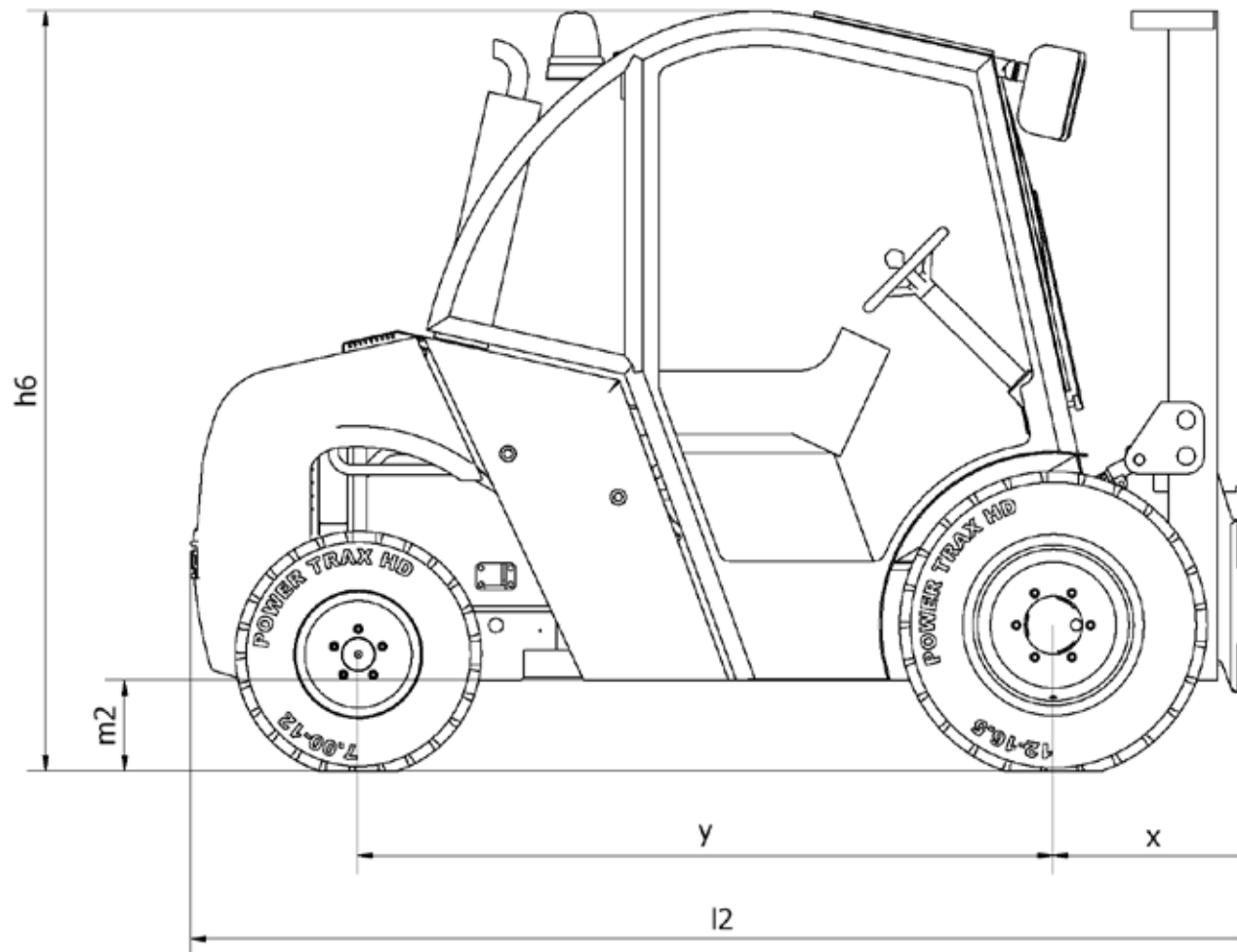
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GENERAL DIMENSIONS

measure	mm	inches
h6	2.100	82,7
x	650	25,6
y	1.875	73,8
l2	3.025	119,1
m2	250	9,8

* h6 corresponds to standard mast duplex 3.3 m
 $\alpha = 10^\circ / \beta = 10^\circ$ for duplex masts



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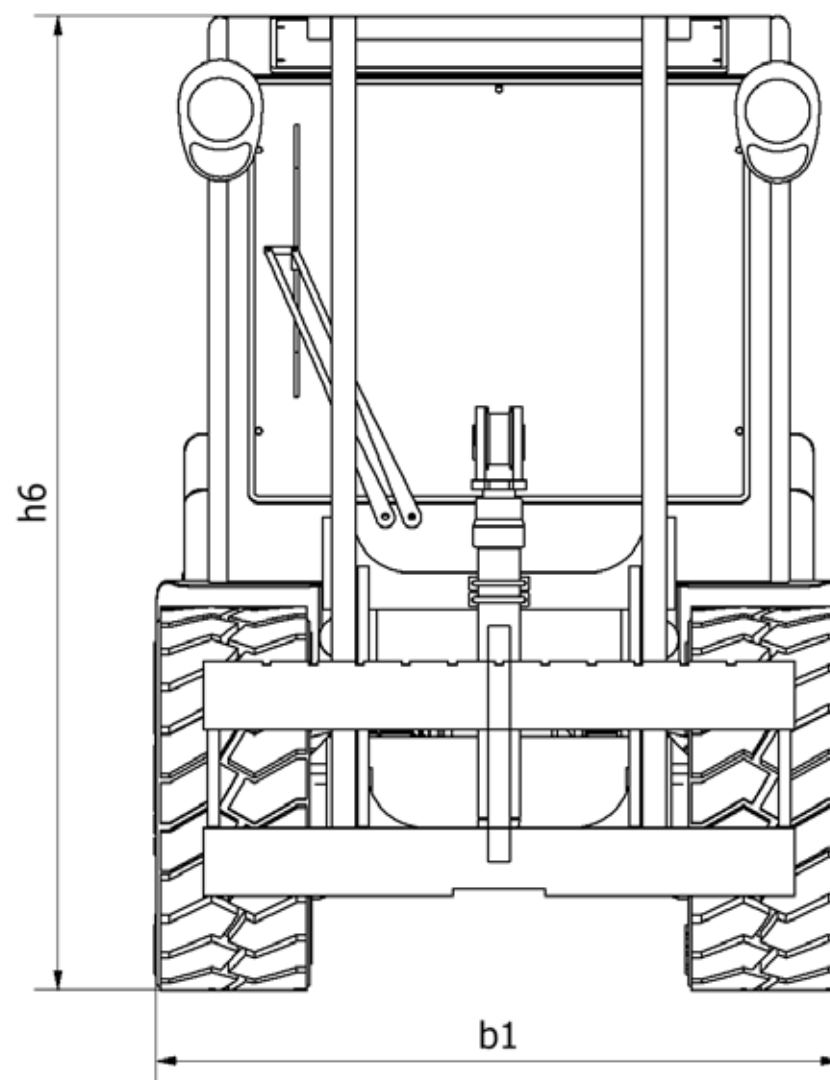
GENERAL DIMENSIONS

measure	mm	inches
h6	2.100	82,7
b1	1.475	58,1

* h6 corresponds to standard mast duplex 3.3 m

$\alpha = 10^\circ / \beta = 10^\circ$ for duplex masts

$\alpha = 7^\circ / \beta = 7^\circ$ for triplex masts



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SPECIFICATIONS		
LOAD	3.000 Kg	6.614 lb
COG	500 mm	19,7 in
CARRIAGE	FEM III B	
TRACTION	2WD / 4WD	
EMPTY WEIGHT	4.950 Kg	10.913 lb
LOADED WEIGHT	7.950 Kg	17.527 lb
TURNING RADIUS	2WD & 4WD	
	2.500 mm	98,4 in
FUEL CAPACITY	90 l	23,7 gl
MAXIMUM SPEED	2WD	4WD
	24 Kph 14,9 mph	24 Kph 14,9 mph
MAX. SLOPE WITH LOAD	2WD 30 %	4WD 40 %

ENGINE		
TRACTION	2WD	4WD
MODEL	PERKINS 400D SERIES	
TYPE	404D22	
MAX. POWER	38,0 KW 50,9 BHP	
MAX. RPM	3.000	
MAX. TORQUE	142,7 Nm 105,2 lb ft	

DRIVE		
TRACTION	2WD	4WD
PUMP	Linde HPV	
FRONT MOTOR	Linde HVM	
REAR MOTORS	-	Poclain
SERVICES PUMP	Parker	

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CABIN options and serial equipment

OPTION	CODE	REQUIRES	B30 MP 2WD	B30 MP 4WD
CABIN AIR CONDITIONING For hot areas or applications, it gives extra confort to the operator	B30.CAC.01	B30.CDR.01	☐	☐
CABIN DOORS Includes both opening doors, with keylock and sliding windows on both sides	B30.CDR.01	B30.SCB.01	☐	☐
CABIN HEATER For cold areas or applications, it gives extra confort to the operator	B30.CHT.01	B30.CDR.01	☐	☐
CABIN NOISE ISOLATION All the rear area is covered with additional isolation material, to reduce eco and noise	-	-	☒	☒
DOCUMENT HOLDER IN CABIN A place to keep all important documentation related to the machine	-	-	☒	☒
EXTERNAL MIRRORS Placed on both sides of the machine, below the front lights	B30.EMR.01	-	☐	☐
FRONT WINDSCREEN DEMISTER Installed below the front windscreen, useful when working in cold areas	B30.FWD.01	B30.CHT.01	☐	☐

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CABIN options and serial equipment

OPTION	Description	CODE	REQUIRES	B30 MP 2WD	B30 MP 4WD
FRONT WINDSCREEN WIPER	Installed in the front windscreen, useful when working in cloudy areas	B30.FWW.01	B30.SCB.01	■	■
FRONT WINDSCREEN WATER JET	Installed in the front windscreen, useful when working in cloudy and dusty areas	B30.FWJ.01	B30.FWW.01	□	□
GRAMMER PRIMO XM SEAT	To offer the operator the best confort and ergonomics, all our forklifts include this seat	-	-	■	■
HEAD REST ON SEAT	It increases the operator confort, specially when working at high lifting heights	B30.HRS.01	-	□	□
HEATED SEAT	For cold areas, to give extra confort to the operator, the seat includes electrical heating	B30.HTS.01	B30.CDR.01	□	□
PANORAMIC INTERIOR MIRROR	It gives an extra view of the rear area to the operator, useful in complete cabin	B30.PMR.01	-	□	□
MULTIMEDIA WITH 6 SPEAKERS	High quality multimedia device, with 6 speakers inside the cabin, and phone hands free with BT	B30.RCD.01	B30.CDR.01	□	□

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CABIN options and serial equipment

OPTION	Description	CODE	REQUIRES	B30 MP 2WD	B30 MP 4WD
REAR PROXIMITY SENSORS	When working in very small areas, it prevents the operator from crashes and scratches	B30.RPS.01	-	☐	☐
REAR WINDSCREEN WIPER	Installed in the rear windscreen, useful when working in cloudy areas	B30.RWW.01	B30.SCB.01	☐	☐
ROOF TINTED SCREEN	Recommended for continuous operation on sunny areas, to reduce the operator eyes fatigue	B30.RTS.01	B30.SCB.01	☐	☐
RUBBER RUG AND PEDAL COVERS	The cabin rug and the pedals are covered with rubber	B30.RUB.01	-	☒	☒
SEMI CABIN	Includes front, roof and rear windscreens of security tempered glass	B30.SCB.01	-	☒	☒
12V CHARGING PLUG	Useful for charging mobile phones, GPS and other 12 V devices	B30.12V.01	-	☒	☒

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ENGINE options and serial equipment

OPTION	Description	CODE	REQUIRES	B30 MP 2WD	B30 MP 4WD
AUTOMATIC ENGINE SHUTDOWN	The control unit stops the engine when high water temperature or low oil pressure occurs	B30.AES.01	-	☐	☐
CYCLONIC AIR PRE FILTER	Recommended when working in very dusty areas, to reduce the air filter maintenance	B30.CAP.01	-	☒	☒
ENGINE STOP UNDER SEAT	The engine shuts down after 1 min when there is no operator presence on the seat	B30.ESS.01	-	☐	☐
EXPANSION RESERVOIR IN COOLING	It prevents coolant leak when operating at high temperatures, to recover it when cooled down	B30.ETC.01	-	☒	☒
FUEL WATER SEPARATOR	It prevents the water contained in the fuel to get into the injection pump	B30.FWS.01	-	☒	☒
FUNCTIONS STOP UNDER SEAT	It stops the mast functions after 1 min when there is no operator presence in the seat	B30.FWS.01	-	☒	☒
SPARK ARRESTOR IN EXHAUST	Recommended when working with flammable materials or areas with a high risk of explosion	B30.SAE.01	-	☐	☐

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HYDRAULICS options and serial equipment

OPTION	Description	CODE	REQUIRES	B30 MP 2WD	B30 MP 4WD
ANTI CAVITATION VALVE ON TILTING	It makes an accurate control of the mast tilting, specially at high heights	B30.AVT.01	-	■	■
ANTI SPINNING CONTROL 4WD	The flow divider gets absolute control of the power delivered to each wheel	B30.AS4.01	-	NA	■
FRONT AXLE DIFFERENTIAL LOCK	The front axle limited slip prevents power loose when one wheel spins	B30.AS2.01	-	■	■
AUTOMATIC PARKING BRAKE	When service brake is pushed under neutral shift, parking brake is activated automatically	B30.APB.01	-	□	□
REMOTE HYDRAULIC JOYSTICKS	The valveblock is remotely controlled via 2 proportional hydraulic joysticks	B30.RHJ.01	-	■	■
SECURITY VALVE ON LIFTING	It prevents the load to go down while the machine is off or out of service	B30.SVL.01	-	■	■

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ELECTRICAL options and serial equipment				
OPTION	CODE	REQUIRES	B30 MP 2WD	B30 MP 4WD
BLUE FRONT LIGHTS In some applications, it is recommended to use blue front lights	B30.BFL.01	-	☐	☐
CABIN CONFORT LIGHT It includes a cabin light for the cabin entering area	B30.CRL.01	-	☐	☐
EXTERNAL BATTERY CONNECTORS Very useful when the battery is down, and the machine needs electrical starting aid	B30.BCN.01	-	☐	☐
EXTERNAL EMERGENCY STOP In some applications is necessary to have an emergency stop button outside of the cabin	B30.ESB.01	-	☐	☐
GEL BATTERY Recommended for very cool areas, to improve engine performance and start up	B30.GBA.01	B30.LTL.01	☐	☐
MAST ADDITIONAL LIGHTS 2 halogen lights installed in the mast to increase front lighting power	B30.MAL.01	-	☐	☐
ROAD LIGHTS It includes front and rear lights, direction indicators, rotating beacon, and rear working light	B30.RLG.01	-	☒	☒

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MISCELLANEOUS options and serial equipment

OPTION	Description	CODE	REQUIRES	B30 MP 2WD	B30 MP 4WD
FIRE EXTINGUISHER	A 2Kg fire extinguisher is installed on each side of the machine	B30.FIR.01	-	☐	☐
INTEGRATED FORKS POSITIONER	The carriage can be fitted with an integrated fork positioner, losing less load capacity	B30.FRP.01	-	☐	☐
HIGH TEMPERATURE LIQUIDS	Recommended for operating T over 40°C (104°F). Affects engine oil, coolant and hyd. oil	B30.HTL.01	-	☐	☐
LOAD BACK REST	When working with high volume loads, it prevents material falling over operator OHGP	B30.LBR.01	-	☐	☐
LOAD STABILIZER	Used for clamping high volume loads, and prevent load slip of the forks	B30.LST.01	-	☐	☐
LOW TEMPERATURE LIQUIDS	Recommended for operating T lower -10°C (14°F). Affects engine oil, coolant and hyd. oil	B30.LTL.01	B30.GBA.01	☐	☐
OPTIONAL TYRES	The machine can fit 4 different tyre pattern for all the wheels, that suit almost all applications	B30.TYR.01	-	☐	☐
PERSONALIZED PAINT	You can personalize your machine paint, according to you company or fleet colors	B30.PPT.01	-	☐	☐

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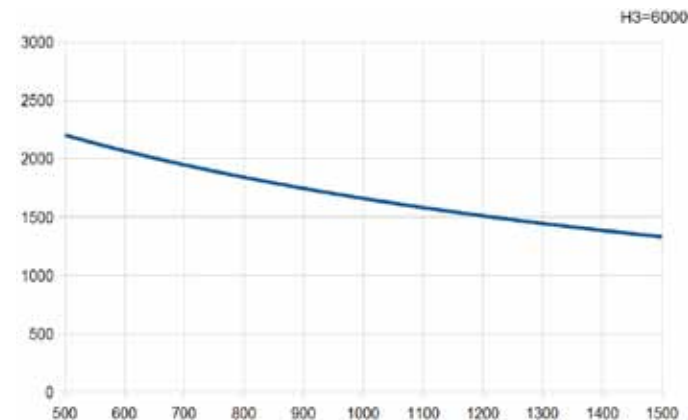
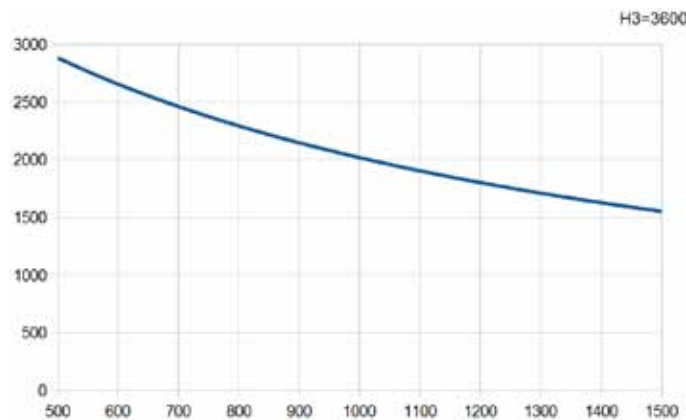
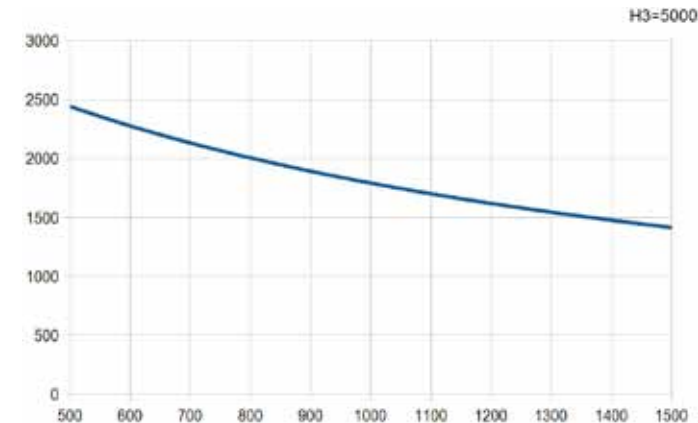
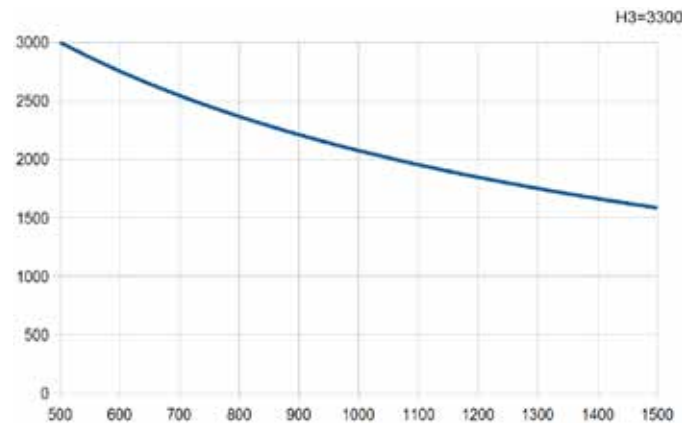
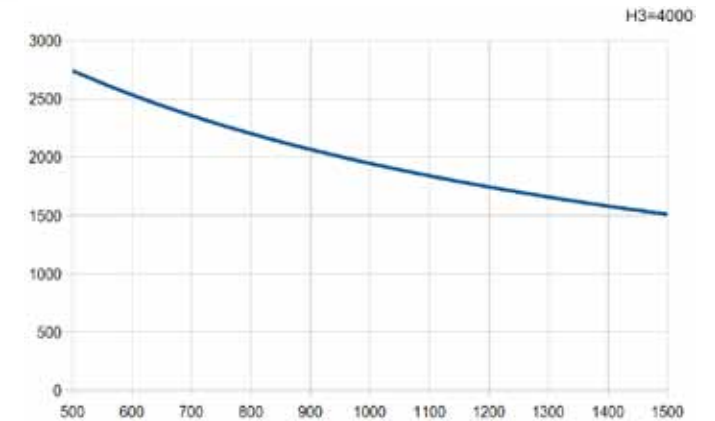
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MAST options and serial equipment

TYPE	H3 mm (in)	H1 mm (in)	H2 mm (in)	H4 mm (in)	CODE	B30 MP 2WD	B30 MP 4WD
DUPLEX 3.3 M 2C	3.250 (128)	2.500 (98)	-	4.125 (162)	B30.D33.01	■	■
DUPLEX 4.0 M 2C + INT. SIDESHIFT	3.950 (156)	2.850 (112)	-	4.825 (190)	B30.D40.01	□	□
TRIPLEX 3.6 M 4C + INT. SIDESHIFT	3.600 (142)	2.055 (81)	1.235 (49)	4.425 (174)	B30.T36.01	□	□
TRIPLEX 5.0 M 4C + INT. SIDESHIFT	4.950 (195)	2.505 (99)	1.685 (66)	5.775 (227)	B30.T50.01	□	□
TRIPLEX 6.0 M 4C + INT. SIDESHIFT	6.000 (236)	2.855 (112)	2.035 (80)	6.825 (269)	B30.T60.01	□	□

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TYRE PATTERNS	PATTERN	FRONT TYRE	REAR TYRE	PAVED ROADS	MUD	EARTH	SAND	GRAVEL	SNOW
		10x16.5 OD: 775 mm SW: 267 mm	27x8.50-15 OD: 676 mm SW: 218 mm	• • •	• • •	• • •	• • •	• • •	• • •
		10x16.5 OD: 785 mm SW: 268 mm	NA	• • •	• • •	• • •	• • •	• • •	• • •
		10x16.5 OD: 790 mm SW: 268 mm	7.00-12 OD: 680 mm SW: 205 mm	• • • •	• • • •	• • • •	• • • •	• • • •	• • • •
		10.0/75-15.3 OD: 780 mm SW: 264 mm	7.00-12 OD: 683 mm SW: 200 mm	• • • •	• • • •	• • • •	• • • •	• • • •	• • • •

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