

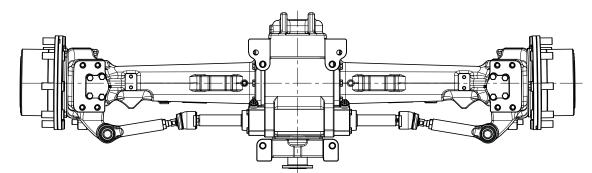
your solution supplier...

## **4WD TRACTOR AXLES**

- Hema agricultural tractor axles ranging between 70-140 hp designed to work in heavy duty conditions with robust gears and frame.
- Waterproof sealing is standard for puddling environment such as paddy fields.
- Wide range of gear ratio and track width options meet the requirement of various applications.
- Easy service & maintenance thanks to three-piece-modular design and common parts used in Hema axles.
- Axles enable a small turning radius and high maneuverability at 57° steering angle and available with open, limited slip or 100% differential lock configurations.
- Optional wet brake system maintain a reliable breaking.

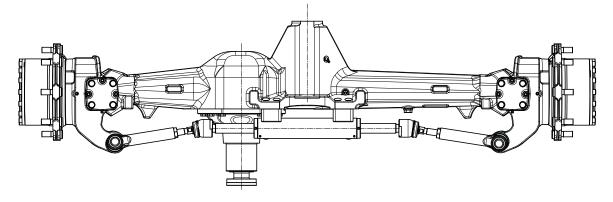
### **CENTER DRIVE FRONT AXLES**

	HFA075	HFA085	HFA200	HFA210	HFA220	HFA240
Max. engine power	70 HP	90 HP	100 HP	110 HP	120 HP	140 HP
Flange to flange distance	1250 mm	1404/1604 mm	1604/1640 mm	1604/1640 mm	1640 mm	1800 mm
Steering sensor	Optional	Optional	Optional	Optional	Optional	Optional
Differential	Open /					
Differential	Limited Slip					
Peak torque at wheels	14 kNm	20 kNm	24 kNm	26 kNm	28 kNm	32 kNm
Dynamic load capacity	20 kN	28,5 kN	34 kN	37 kN	50 kN	77 kN
Static load capacity	50 kN	71 kN	85 kN	92 kN	125 kN	136.5 kN
Total ratio	10.27 to 19.2:1	12.27 to 19.2:1				



### SIDE DRIVE FRONT AXLES

	HFA360	HFA285	HFA399
Max. engine power	70 HP	85 HP	110 HP
Flange to flange distance	1450 mm	1660 mm	1800 mm
Steering sensor	Optional	Optional	Optional
Differential	Open / Limited slip / Hyd. lock	Open / Limited slip / Hyd. lock	Open / Limited slip / Hyd. lock
Peak torque at wheels	14 kNm	20 kNm	26 kNm
Dynamic load capacity	28 kN	40 kN	53 kN
Static load capacity	70 kN	100 kN	130 kN
Total ratio	17.89:1	17.89:1	20.70:1

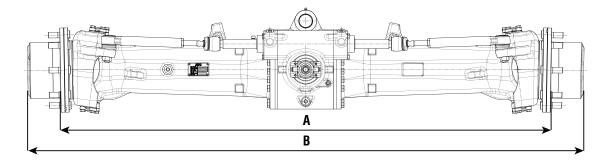


## **BACKHOE LOADER AXLES**

- Hema BHL axles, with wide range of gear ratios, track widths and vehicle connections, designed to work in heavy duty conditions with robust frame and gears and waterproof sealing for paddy applications.
- Easy service & maintenance thanks to the 3 pieces modular design and common part usage.
- All steer axles enable a small turning radius and high maneuverability with 53° steering angle. All rear axles are available with open, limited slip or 100% differential lock configurations.

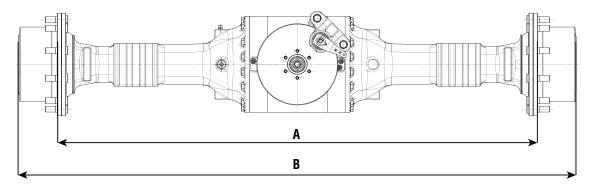
### **STEER AXLES**

	421	421HD
(A) Flange to flange distance	1800 - 1920 mm	1800 - 1920 mm
(B) Max. overall dimension	2180 mm	2180 mm
Hub diameter	Ø 220.8 mm	Ø 220.8 mm
PCD	Ø 275 mm	Ø 275 mm
Max. output torque	26 kNm	32 kNm
Dynamic axle load	65 kN	77 kN
Steering angle	53°	53°
Total ratio	from 12.8:1 up to 19.2:1	from 12.8:1 up to 19.2:1



## **RIGID AXLES**

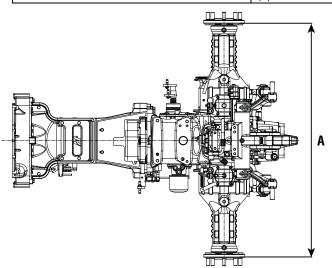
	621	621HD
(A) Flange to flange distance	1530/1800 mm	1530 - 1800 mm
(B) Max. overall dimension	2090 mm	2090 mm
Hub diameter	Ø 280.6 mm	Ø 280.6 mm
PCD	Ø 335 mm	Ø 335 mm
Max. output torque	53 kNm	65 kNm
Dynamic axle load	90 kNm	100 kNm
Total ratio	from 12.8:1 up to 19.2:1	from 12.8:1 up to 19.2:1

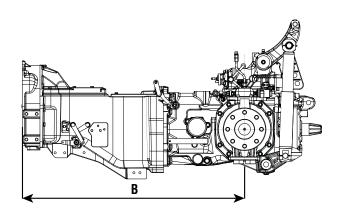


## **H100 SERIES TRANSAXLES**

- H100 series is developed for agricultural tractors from 60 HP up to 110 HP power rating.
- Independent rear PTO has been designed to transmit all the engine's power and is therefore ideal for tractors.
- Wide range of speed options such as 12F+12R, 16F+8R, 24F+24R, 40 km/h designed for the highest satisfaction.
- Enhanced ergonomics and driving comfort thanks to the lay shaft design reducing the gear box size and providing enough room in the driver area.
- Wet service brakes, located between the differential and the final reduction on tractor, designed to be maintenance free.
- Suspended pedals are available as optional on tractors with cabs.
- Lifting capacity from 2400 kg up to 4500 kg with optional external cylinder and plenty of control features (position, draft, mix, autolift control) are available for various attachments. Electronic version offers a comfort control in the field.

	H100.80		H100.90		H100.110		
INPUT DATA							
Max. engine power	60-85 HP		75-95 HP		90-110 HP		
Max. engine speed at rated power	2200	) rpm	2200 rpm		2200	) rpm	
Max. engine torque	360	Nm	370	Nm	415	Nm	
CONFIGURATION							
Total gear (fwd & rev)	12F + 12R	16F + 8R	12F + 12R	16F + 8R	12F + 12R	24F + 24R	
Splitter shifting	-	Synchromesh	-	Synchromesh		-	
Gear box shifting	Synch	romesh	Synchr	romesh	Synch	romesh	
Shuttle shifting	Synch	romesh	Synchr	romesh	Synch	romesh	
4WD output	Mech. / Hy	d. actuation	Mech. / Hyd. actuation		Hyd. actuation		
Differential lock	Mech. / Hy	Mech. / Hyd. actuation		Mech. / Hyd. actuation		Hyd. actuation	
Service brake	Wet type Hyd. actuation		Wet type Hyd. actuation		Wet type Hyd. actuation		
Parking brake	Wet type		Wet	type	Wet	type	
	Mech. actuation		Mech. actuation		Mech. actuation		
MAIN DATA							
(A) Flange to flange distance	1150/1342 mm		1750	) mm	1750	) mm	
(B) Rear axle center to front end distance	1215 mm		1215/1475 mm		1475 mm		
Total tractor ballasted weight	3200 kg		3680 kg		4060 kg		
Max. rear tire size	16.9	R 30	16.9 R 34		16.9 R 38		
Rear lift capacity at lower link	= :: •	32 kN	36 kN		40/45 kN		
Hydraulic lift control	Mechanical		Electronic / Mechanical		Electronic / Mechanical		
PTO OPTIONS							
Single speed	540	rpm	-		-		
2 speeds	487/540E - 5	540/540E rpm	540/540E rpm		540/540E rpm		
c sheens	(optional 540E/1000 rpm)		(optional 540E/1000 rpm)		(optional 540E/1000 rpm)		

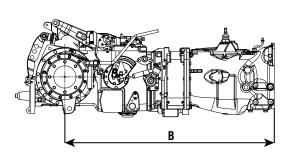


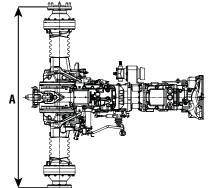


# H200 & H300 SERIES TRANSAXLES

- Specifically developed for standard and heavy duty agricultural tractors from 50 up to 115 HP power rating.
- Basic version with 8 forward and 2 reverse speeds allows massive cost savings. Premium option with synchromesh gears enable a smooth shifting which is standard in 12 forward and 4 reverse version.
- Hydraulic lift has draft, position and mixed control with lifting capacity from 14kN up to 35kN.
- Mechanical pedal controlled differential locking ensures optimal grip even on difficult terrain.
- Optimal speed distribution offers 3.2-40 km/h speeds for standard and 2.6-36 km/h for heavy duty tractors which allows smooth operation with different attachments carried on the 3-point hitch or towed.
- 540, 540/540E and 540/1000 PTO speeds controlled by a single main clutch which enables independently control the PTO against the transmission for IPTO versions.
- Wet service brakes, located between the differential and the final reduction on tractor, designed to be maintenance free.
- Basic version control is manual and mechanical at H240 and H290 while hydraulic control is available at H285 and H3105.
- Left side position 4WD is optional for standard and heavy duty transmissions.

Max. engine speed at rated power     2200 rpm     2200 rpm     2200 rpm     2200 rpm     2200 rpm     2450 rpm       Max. engine torque     190 Nm     250 Nm     345 Nm     345 Nm     432 Nm       Clutch size     12" <t< th=""><th></th><th></th><th></th><th></th><th>11000</th><th colspan="2">11000</th></t<>					11000	11000	
Max. engine power     50 HP     65 HP     85 HP     85 HP     110 HP       Max. engine speed at rated power     2200 rpm     200 rpm     200 rpm     200 rpm     210 rpm     200 rpm		H240	H260	H285	H290	H398	
Max. engine speed at rated power 2200 rpm 2200 rpm 2200 rpm 2200 rpm 2200 rpm 2200 rpm 2450 rpm   Max. engine torque 190 Nm 250 Nm 345 Nm 345 Nm 432 Nm   Clutch size 12* 12* 12* 12* 12* 12*   CONFIGURATION Iter to the size 12* 12* 12* 12* 12* 12*   Configuration SF + 2R 8F + 2R 12F + 4R 8F + 2R 12F + 4R Synchromesh	INPUT DATA						
Max. engine torque190 Nm250 Nm345 Nm345 Nm432 NmClutch size12°12°12°12°12°12°13°CONFIGURATIONTotal gear (fwd & rev)8F + 2R8F + 2R12F + 4R8F + 2R12F + 4RGear box configurationCrashmesh/ SynchromeshSynchromeshSynchromeshCrashmesh/ SynchromeshSynchromeshSynchromeshSplitter shiftingSynchromeshSynchromeshSynchromeshSynchromeshGear box shiftingCrashmesh/ SynchromeshSynchromeshSynchromeshSynchromeshSynchromeshShifting lever positionCenter shiftingCenter shiftingSide shiftingCenter shiftingSide shifting4WD Output (Mech. Actuation)2WD2WD or 4WD2WD or 4WD2WD or 4WD4WDDifferential lockMech. actuationMech. actuationMech. actuationMech. actuationFinal planetary reductionNoNoYesYesYesService brakeDisc/Drum Mech.DiscDiscDiscDiscBarking brakeYesYesYesYesYesMAIN DATA14.9 R2814.9 R2814.9 R2818.4 R3018.4 R30(B) Rear axie center to front end distance1255125514051405Otal tractor balasted weight2500 kg3000 kg369036904500 kgMax. rear tire size14.9 R2814.9 R2818.4 R3018.4 R3018.4 R38 <t< th=""><th>Max. engine power</th><th>50 HP</th><th>65 HP</th><th>85 HP</th><th>85 HP</th><th>110 HP</th></t<>	Max. engine power	50 HP	65 HP	85 HP	85 HP	110 HP	
Clutch size   12'   12'   12'   12'   12'   12'   12'   13'     CONFIGURATION   Total gear (fwd & rev)   8F + 2R   8F + 2R   12F + 4R   8F + 2R   12F + 4R     Gear box configuration   Crashmesh/ Synchromesh   Synchromesh   Synchromesh   Crashmesh   Synchromesh   Synchromesh   Synchromesh   Synchromesh     Splitter shifting   Crashmesh/ Synchromesh   Synchromesh   Crashmesh   Synchromesh   Swnch	Max. engine speed at rated power	2200 rpm	2200 rpm	2200 rpm	2200 rpm	2450 rpm	
CONFIGURATION       Total gear (fwd & rev)     8F + 2R     8F + 2R     12F + 4R     8F + 2R     12F + 4R       Gear box configuration     Crashmesh/ Synchromesh     Synchromesh	Max. engine torque	190 Nm	250 Nm	345 Nm	345 Nm	432 Nm	
Total gear (fwd & rev)8F + 2R8F + 2R12F + 4R8F + 2R12F + 4RGear box configurationCrashmesh/ SynchromeshSynchromeshSynchromeshCrashmeshSynchromeshSplitter shiftingSynchromeshSynchromeshCrashmeshSynchromeshGear box shiftingCrashmesh/ SynchromeshSynchromeshSynchromeshSynchromeshSynchromeshSynchromeshShifting lever positionCenter shiftingCenter shiftingSide shiftingCenter shiftingSide shiftingSide shifting4WD Output (Mech. Actuation)2WD2WD or 4WD2WD or 4WD2WD or 4WD4WDDifferential lockMech. actuationMech. actuationMech. actuationMech. actuationFinal planetary reductionNoNoYesYesYesService brakeDisc/Drum Mech. actuationMech. actuationMech. actuationHyd. actuationParking brakeYesYesYesYesYes(A) Flange to flange distance15451545176517651872 mm(B) Rear axle center to front end distance12551255140514051405 mmTotal tractor ballasted weight2500 kg3000 kg369036904500 kgMax. rear tire size14.9 R2814.9 R2818.4 R3018.4 R3018.4 R38Rear lift capacity at lower link14 kN14 kN25 kN23 kN35 kNPTO OPTIONSSingle speedPT	Clutch size	12"	12"	12"	12"	13"	
Gear box configuration     Crashmesh/ Synchromesh     Synchromesh     Synchromesh     Synchromesh     Crashmesh     Synchromesh     Sy	CONFIGURATION						
Gear box configurationSynchromeshSynchromeshSynchromeshCrashmeshSynchromeshSplitter shiftingSynchromesh-SynchromeshSynchromeshGear box shiftingCrashmesh/ SynchromeshSynchromeshSynchromeshSynchromeshCrashmeshSynchromeshShifting lever positionCenter shiftingCenter shiftingSide shiftingCenter shiftingSide shiftingSide shifting4WD Output (Mech. Actuation)2WD2WD or 4WD2WD or 4WD2WD or 4WD4WDDifferential lockMech. actuationMech. actuationMech. actuationMech. actuationFinal planetary reductionNoNoYesYesYesService brakeDisc/Drum Mech. actuationDiscDiscDiscDiscParking brakeYesYesYesYesYesMAIN DATA15451545176517651872 mm(B) Rear axle center to front end distance12551255140514051405 mmTotal tractor ballasted weight2500 kg3000 kg369036904500 kgMax. rear tire size14.9 R2814.9 R2818.4 R3018.4 R3018.4 R30PTO OPTIONSPTO/IPTO 540 rpmPTO/IPTOPTO 540 rpm-2 sneadeIPTOPTO/IPTO1PTO1PTO	Total gear (fwd & rev)	8F + 2R	8F + 2R	12F + 4R	8F + 2R	12F + 4R	
Gear box shiftingCrashmesh/ SynchromeshSynchromeshSynchromeshSynchromeshCrashmeshSynchromeshShifting lever positionCenter shiftingCenter shiftingSide shiftingCenter shiftingSide shiftingSide shifting4WD Output (Mech. Actuation)2WD2WD2WD or 4WD2WD or 4WD2WD or 4WD4WDDifferential lockMech. actuationMech. actuationMech. actuationMech. actuationMech. actuationMech. actuationFinal planetary reductionNoNoYesYesYesYesService brakeDisc/Drum Mech. actuationDiscDiscDiscDiscDiscParking brakeYesYesYesYesYesYesMAIN DATA(A) Flange to flange distance15451545176517651872 mm(B) Rear axle center to front end distance12551255140514051405 mmTotal tractor ballasted weight2500 kg3000 kg369036904500 kgMax. rear tire size14.9 R2814.9 R2818.4 R3018.4 R3018.4 R38Rear lift capacity at lower link14 kN14 kN25 kN23 kN35 kNPTO/IPTO 540 rpmPTO/IPTO 540 rpm-PTO 540 rpm-2 speedPTO/IPTO 540 rpmIPTOIPTOIPTO	Gear box configuration		Synchromesh	Synchromesh	Crashmesh	Synchromesh	
Gear box shiftingSynchromeshSynchromeshSynchromeshCrashmeshSynchromeshShifting lever positionCenter shiftingCenter shiftingSide shiftingCenter shiftingSide shifting4WD Output (Mech. Actuation)2WD2WD2WD or 4WD2WD or 4WD2WD or 4WD4WDDifferential lockMech. actuationMech. actuationMech. actuationMech. actuationMech. actuationMech. actuationMech. actuationFinal planetary reductionNoNoYesYesYesYesService brakeDisc/Drum Mech. actuationDiscDiscDiscDiscDiscParking brakeYesYesYesYesYesYesMAIN DATAYesYesYesYesYesYes(A) Flange to flange distance15451545176517651872 mm(B) Rear axle center to front end distance12551255140514051405 mmTotal tractor ballasted weight2500 kg3000 kg369036904500 kgMax. rear tire size14.9 R2814.9 R2818.4 R3018.4 R3018.4 R3018.4 R38PTO OPTIONSPTO/IPTO 540 rpmPTO/IPTO 540 rpm-PTO 540 rpm-2 speedPTO/IPTO 540 rpmIPTOIPTOIPTO	Splitter shifting	-	-	Synchromesh	-	Synchromesh	
4WD Output (Mech. Actuation)2WD2WD2WD or 4WD2WD or 4WD2WD or 4WD4WDDifferential lockMech. actuationMech. actuationMech. actuationMech. actuationMech. actuationMech. actuationFinal planetary reductionNoNoNoYesYesYesService brakeDisc/Drum Mech. actuationDiscDiscDiscDiscDiscParking brakeYesYesYesYesYesYesMAIN DATA(A) Flange to flange distance15451545176517651872 mm(B) Rear axle center to front end distance12551255140514051405 mmTotal tractor ballasted weight2500 kg3000 kg369036904500 kgMax. rear tire size14.9 R2814.9 R2818.4 R3018.4 R3018.4 R38Rear lift capacity at lower link14 kN14 kN25 kN23 kN35 kNPTO/IPTO 540 rpmPTO/IPTO 540 rpmPTO/IPTO 540 rpmPTO 540 rpm-IPTOIPTO	Gear box shifting	Synchromesh	Synchromesh	Synchromesh	Crashmesh	Synchromesh	
Differential lockMech. actuationMech. actuationMech. actuationMech. actuationMech. actuationFinal planetary reductionNoNoYesYesYesService brakeDisc/Drum Mech. actuationDiscDiscDiscDiscParking brakeYesYesYesYesYesYesYesYesYesYesYesMAIN DATA(A) Flange to flange distance15451545176517651872 mm(B) Rear axle center to front end distance12551255140514051405 mmTotal tractor ballasted weight2500 kg3000 kg369036904500 kgMax. rear tire size14.9 R2814.9 R2818.4 R3018.4 R3018.4 R38Rear lift capacity at lower link14 kN14 kN25 kN23 kN35 kNPTO OPTIONSPTO/IPTO 540 rpmPTO/IPTO 540 rpmPTO S40 rpm-2 speedsIPTOIPTOIPTOIPTO	Shifting lever position	Center shifting		Side shifting	Center shifting	Side shifting	
Final planetary reductionNoNoYesYesYesService brakeDisc/Drum Mech. actuationDiscDiscDiscDiscDiscParking brakeYesYesYesYesYesYesParking brakeYesYesYesYesYesYes(A) Flange to flange distance15451545176517651872 mm(B) Rear axle center to front end distance12551255140514051405 mmTotal tractor ballasted weight2500 kg3000 kg369036904500 kgMax. rear tire size14.9 R2814.9 R2818.4 R3018.4 R3018.4 R38PTO OPTIONSPTO/IPTO 540 rpmPTO/IPTO 540 rpmPTO/IPTO 540 rpmPTO 540 rpm-2 sneedsImage: second s	4WD Output (Mech. Actuation)	2WD	2WD or 4WD	2WD or 4WD	2WD or 4WD	4WD	
Service brakeDisc/Drum Mech. actuationDiscDiscDiscDiscMech. actuationHyd. act	Differential lock	Mech. actuation	Mech. actuation	Mech. actuation	Mech. actuation	Mech. actuation	
Service brakeactuationMech. actuationHyd. actuationMech. actuationHyd. actuationParking brakeYesYesYesYesYesYesMAIN DATA(A) Flange to flange distance15451545176517651872 mm(B) Rear axle center to front end distance12551255140514051405 mmTotal tractor ballasted weight2500 kg3000 kg369036904500 kgMax. rear tire size14.9 R2814.9 R2818.4 R3018.4 R3018.4 R3018.4 R38Rear lift capacity at lower link14 kN14 kN25 kN23 kN35 kNPTO OPTIONSPTO/IPTO 540 rpmPTO/IPTO 540 rpmPTO 540 rpm-2 cneedsPTOIPTOIPTOIPTOIPTO	Final planetary reduction	No	No	Yes	Yes	Yes	
MAIN DATA       (A) Flange to flange distance     1545     1545     1765     1765     1872 mm       (B) Rear axle center to front end distance     1255     1255     1405     1405     1405 mm       Total tractor ballasted weight     2500 kg     3000 kg     3690     3690     4500 kg       Max. rear tire size     14.9 R28     14.9 R28     18.4 R30     18.4 R30     18.4 R38       Rear lift capacity at lower link     14 kN     14 kN     25 kN     23 kN     35 kN       PTO OPTIONS     PTO/IPTO     PTO/IPTO     -     PTO 540 rpm     -       Single speed     IPTO     IPTO     IPTO     IPTO     IPTO	Service brake						
(A) Flange to flange distance     1545     1545     1765     1765     1872 mm       (B) Rear axle center to front end distance     1255     1255     1405     1405     1405 mm       Total tractor ballasted weight     2500 kg     3000 kg     3690     3690     4500 kg       Max. rear tire size     14.9 R28     14.9 R28     14.9 R28     18.4 R30     18.4 R30     18.4 R38       Rear lift capacity at lower link     14 kN     14 kN     25 kN     23 kN     35 kN       PTO OPTIONS     PTO/IPTO     PTO/IPTO     PTO/IPTO     -     PTO 540 rpm     -       Single speed     IPTO     IPTO     IPTO     IPTO     IPTO     IPTO	Parking brake	Yes	Yes	Yes	Yes	Yes	
(B) Rear axle center to front end distance     1255     1255     1405     1405     1405 mm       Total tractor ballasted weight     2500 kg     3000 kg     3690     3690     4500 kg       Max. rear tire size     14.9 R28     14.9 R28     14.9 R28     18.4 R30     18.4 R30     18.4 R38       Rear lift capacity at lower link     14 kN     14 kN     25 kN     23 kN     35 kN       PTO OPTIONS     PTO/IPTO 540 rpm     PTO/IPTO 540 rpm     PTO/IPTO 540 rpm     -     PTO 540 rpm     -       Single speed     IPTO     IPTO     IPTO     IPTO     IPTO     IPTO							
Total tractor ballasted weight     2500 kg     3000 kg     3690     3690     4500 kg       Max. rear tire size     14.9 R28     14.9 R28     18.4 R30     18.4 R30     18.4 R38       Rear lift capacity at lower link     14 kN     14 kN     25 kN     23 kN     35 kN       PTO OPTIONS     -     PTO/IPTO 540 rpm     PTO/IPTO 540 rpm     PTO/IPTO 540 rpm     -     PTO 540 rpm     -       asseeds     IPTO     IPTO	(A) Flange to flange distance	1545	1545	1765	1765	1872 mm	
Max. rear tire size     14.9 R28     14.9 R28     18.4 R30     18.4 R30     18.4 R30     18.4 R38       Rear lift capacity at lower link     14 kN     14 kN     25 kN     23 kN     35 kN       PTO OPTIONS     PTO/IPTO     PTO/IPTO     -     PTO 540 rpm     -       Single speed     IPTO     IPTO     IPTO     IPTO     IPTO     IPTO	(B) Rear axle center to front end distance	1255	1255	1405	1405	1405 mm	
Rear lift capacity at lower link   14 kN   14 kN   25 kN   23 kN   35 kN     PTO OPTIONS   -   <	Total tractor ballasted weight	2500 kg	3000 kg	3690	3690	4500 kg	
PTO OPTIONS       Single speed     PTO/IPTO 540 rpm     PTO/IPTO 540 rpm     PTO 540 rpm     -       2 speeds     IPTO     IPTO     IPTO     IPTO	Max. rear tire size	14.9 R28	14.9 R28	18.4 R30	18.4 R30	18.4 R38	
Single speed     PTO/IPTO 540 rpm     PTO/IPTO 540 rpm     PTO/IPTO 540 rpm     PTO 540 rpm     -       2 speeds     IPTO     IPTO     IPTO     IPTO     IPTO	Rear lift capacity at lower link	14 kN	14 kN	25 kN	23 kN	35 kN	
Single speed     540 rpm     -     P10 540 rpm     -       2 speeds     IPTO     IPTO     IPTO	PTO OPTIONS						
2 000000	Single speed			-	PTO 540 rpm	-	
540/1000 rpm	2 speeds	-	-	IPTO 540/540E rpm	-	IPTO 540/1000 rpm	

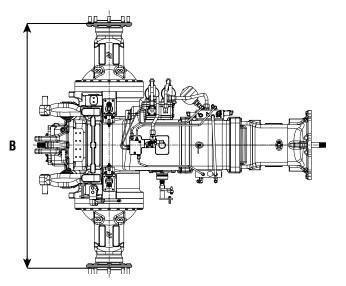


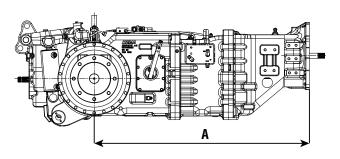


# **H104 SERIES TRANSAXLES**

- H104 series covers all requirements for sophisticated tractors and has a wide scope of application at medium and high power ratings
- Provides a comfortable and efficient driving on harsh environment conditions. Mechanical, semi-automatic or automatic versions are available and 40 km/h or 50 km/h speeds are optional.
- Embedded software controls differential locking, 4WD, PTO activation, power shifting and shuttle at the same time for a smooth driving experience.
- Hydraulic controlled shuttle system enable steering with lever mechanism and ensure high maneuverability on limited spaces
- Shifting is more comfortable with hydro-electronic controlled power shifting without compromising on traction power.
- Lifting capacity from 5500 kg up to 7700 kg with external cylinder and plenty of control features (position, draft, mix, autolift control) are available to work with various attachments.
- Wide gear range is not only for economical driving, but also helps to ensure right speed in the field or road conditions.
- Hema offers 2 and 3 alternative PTO speed options with hydraulic control.

	H104.120	H104.150	H104.180			
INPUT DATA						
Max. engine power	120 HP	147 HP	173 HP			
Max. engine speed at rated power	2200 rpm	2200 rpm	2200 rpm			
Max. engine torque	490 Nm	560 Nm	750 Nm			
CONFIGURATION						
Total gear (fwd & rev)	24F + 24R	24F + 24R	36F + 36R			
Gear box configuration	Synchromesh	Power shift / Synchromesh	Power shift / Synchromesh			
Splitter shifting	Synchromesh	Power shift	Power shift			
Gear box shifting	Synchromesh	Synchromesh	Synchromesh			
Shuttle shifting	Synchromesh	Power shuttle	Power shuttle			
4WD output	Hyd. actuation	Hyd. actuation	Hyd. actuation			
Differential lock	Mech. / Hyd. actuation	Hyd. actuation	Hyd. actuation			
Service brake	Wet type	Wet type	Wet type			
	Hyd. actuation	Hyd. actuation	Hyd. actuation			
Parking brake	Mech. actuation	Mech. actuation	Wet type Mech. actuation			
MAIN DATA						
(A) Flange to flange distance	1342/1750 mm	1750 mm	1750 mm			
(B) Rear axle center to front end distance	1380 mm	1445 mm	1650 mm			
Total tractor unballasted weight	5000 kg	5500 kg	6100 kg			
Max. rear tire size	18.4 R38	18.4 R38	20.8 R38			
Rear lift capacity at lower link	55 kN	70 kN	77 kN			
Hydraulic lift control	Electronic	Electronic	Electronic			
PTO OPTIONS						
2 speeds	540/540E rpm	540/540E rpm				
(Optional 3 speeds)	(Opt. 540E/1000 rpm)	(Opt. 540E/1000 rpm)	540/540E/1000 rpm			
	(Opt. 540/540E/1000 rpm)	(Opt. 540/540E/1000 rpm)				





## **PTO SPEED INCREASER GEARBOX**

	HGB010			HGB020			HGB025			HGB030			
Ratio	Input Speed	Pump Type	Ratio	Input Speed	Pump Type	Ratio	Input Speed	Pump Type	Ratio	Input Speed	Pump Type		
1:2.0			1:1.0		1PN*	1:1.0			1:1.0		1PN*		
1:2.5			1:1.5			1:1.5			1:1.5				
1:3.11			1:2.0			1:2.0		SAE A*	1:2.0				
1:3.5	540 rpm	1PN*	1:2.6	540 rpm	2P1*	1:2.6	540 rpm	SAE B*	1:2.6	540 rpm	2P1*		
1:3.8			1:3.05	1:3.05 1:3.4	3.05	1:3.05	211	1:3.05		SAL D	1:3.05		211
			1:3.4			1:3.4			1:3.4				
			1:3.8			1:3.8			1:3.8				

\* Proper coupling must be provided for the pump connection.





#### ABOUT US

HEMA was established in 1973 under the name of "Hema Hidrolik Makine Sanayi ve Ticaret A.S" located in the Cerkezkoy Industrial Zone in the Tekirdag region to produce external gear pumps for Turkish Industries needs.

Over the years Hema Endustri has extended its product range and industries it serves. Today as one of the leading engineering and manufacturing companies in Turkey, Hema Endustri supplies systems and components to automotive, agricultural machinery, construction and earthmoving Equipment, material handling and industrial machinery OEMs.

In 1998 the company name was changed to HEMA Endüstri A.S. to reflect the breadth of the company activities. Competing with leading manufacturers of the world, Hema continuously aims new technological capabilities in order to improve its product quality and efficiency. Giving particular importance to quality and customer satisfaction, Hema has over the years become a major OEM supplier in the industries that it serves.

Hema owns well-trained, qualified and experienced 3000 strong workforce which fuels its growth and achievements.



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