

MASTERDRIVE ®

POWER TRANSMISSION PRODUCTS

Reverse Mountable Light Duty Sheaves



...something Old is New again...

MasterDrive® HR Sheaves



Reverse Mountable Light Duty Sheaves

Cast Iron Sheaves - **Light-Duty** Bushed,
One Groove and Two Groove
 AK39HR to AK184HR -
 2AK44HR to 2AK184HR
 Order part number size
 Example: AK39HR
 Example: 2AK44HR
 Order H bushing separately

For All 1 Groove Sheaves
 F= 3/4
 L= 1 1/4
 G= 7/16
 E= 3/16
 X= 7/8
 P= 9/16
 O.L.= 1 1/2



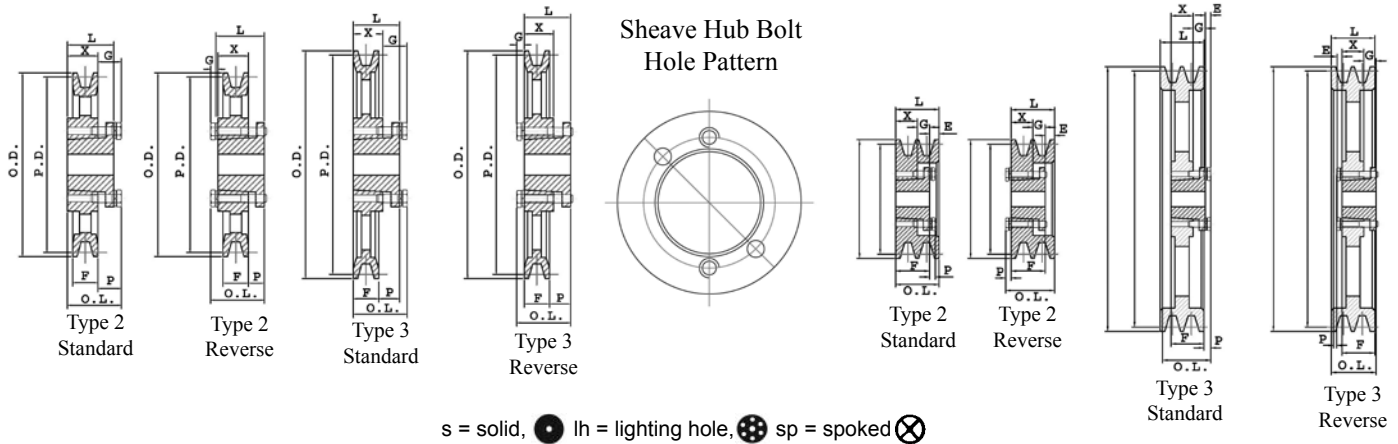
AKHR

For All 2 Groove Sheaves
 F= 1 3/4
 L= 1 1/4
 X= 7/8
 G= 7/16
 E= 3/16
 P= 1/16
 O.L.= 1 1/2



2AKHR

All HR sheaves use standard MasterDrive H bushings.



Part No.	Diameters			Type	WT.
	O.D.	Pitch			
		"3L"	"4L or A"		
AK39HR	3.75	3.16	3.50	2 s	1.50
AK41HR	3.95	3.36	3.70	2 s	1.80
AK44HR	4.25	3.66	4.00	2 s	2.00
AK46HR	4.45	3.86	4.20	2 s	2.30
AK49HR	4.75	4.16	4.50	2 s	2.60
AK51HR	4.95	4.36	4.70	2 s	2.70
AK54HR	5.25	4.66	5.00	2 s	2.60
AK56HR	5.45	4.86	5.20	2 s	2.80
AK59HR	5.75	5.16	5.50	2 s	3.00
AK61HR	5.95	5.36	5.70	3 s	3.10
AK64HR	6.25	5.66	6.00	3 s	3.30
AK66HR	6.45	5.86	6.20	3 s	3.60
AK69HR	6.75	6.16	6.50	3 lh	3.50
AK71HR	6.95	6.36	6.70	3 lh	3.50
AK74HR	7.25	6.66	7.00	3 lh	3.80
AK79HR	7.75	7.16	7.50	3 lh	4.20
AK84HR	8.25	7.66	8.00	3 lh	4.60
AK89HR	8.75	8.16	8.50	3 lh	4.80
AK94HR	9.25	8.66	9.00	3 lh	5.60
AK99HR	9.75	9.16	9.50	3 lh	5.90
AK104HR	10.25	9.66	10.00	3 sp	6.80
AK109HR	10.75	10.16	10.50	3 sp	7.10
AK114HR	11.25	10.66	11.00	3 sp	7.50
AK124HR	12.25	11.66	12.00	3 sp	8.00
AK134HR	13.25	12.66	13.00	3 sp	10.70
AK144HR	14.25	13.66	14.00	3 sp	11.10
AK154HR	15.25	14.66	15.00	3 sp	12.50
AK184HR	18.25	17.66	18.00	3 sp	17.30

Part No.	Diameters			Type	WT.
	O.D.	Pitch			
		"3L"	"4L or A"		
2AK44HR	4.25	3.66	4.00	2 s	2.90
2AK46HR	4.45	3.86	4.20	2 s	3.20
2AK49HR	4.75	4.16	4.50	2 s	3.70
2AK51HR	4.95	4.36	4.70	2 s	3.20
2AK54HR	5.25	4.66	5.00	2 s	3.50
2AK56HR	5.45	4.86	5.20	2 s	3.80
2AK59HR	5.75	5.16	5.50	3 s	4.10
2AK61HR	5.95	5.36	5.70	3 s	4.30
2AK64HR	6.25	5.66	6.00	3 s	4.60
2AK74HR	7.25	6.66	7.00	3 lh	5.10
2AK84HR	8.25	7.66	8.00	3 lh	6.10
2AK94HR	9.25	8.66	9.00	3 lh	7.40
2AK104HR	10.25	9.66	10.00	3 sp	9.20
2AK114HR	11.25	10.66	11.00	3 sp	10.00
2AK124HR	12.25	11.66	12.00	3 sp	10.90
2AK134HR	13.25	12.66	13.00	3 sp	13.10
2AK144HR	14.25	13.66	14.00	3 sp	14.60
2AK154HR	15.25	14.66	15.00	3 sp	16.20
2AK184HR	18.25	17.66	18.00	3 sp	21.60

Each HR Sheave includes an **HRBK** bolt kit to use in place of standard H bushing bolts.

AK Sheaves are accurately machined from gray cast iron, statically balanced, painted and individually packaged.
Note: Cast iron sheaves may not exceed 6500 FPM. This speed **DOES NOT** specify if dynamic balancing (2 plane) is required. Contact customer service to verify whether dynamic balancing is required.

All HR sheaves use standard MasterDrive H bushings.

H bushings stock in inch and metric sizes

Reverse Mountable Light Duty Sheaves

Cast Iron Sheaves - Light Duty

Bushed, **One Groove and Two Groove**

BK36HR to BK190HR - 2BK50HR to 2BK190HR

Order part number size

Example: BK36HR

Example: 2BK50HR

Order H bushings separately

All HR sheaves use standard MasterDrive H bushings.

**For All
1 Groove Sheaves**
F= 7/8
L= 1 1/4
G= 7/16
E= 3/16
X= 7/8

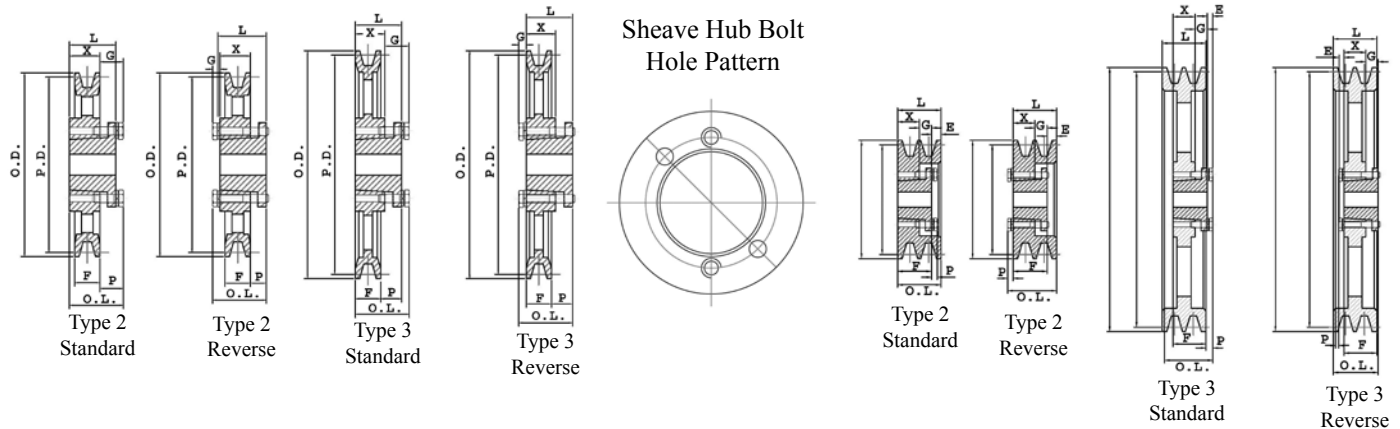


BKHR

**For All
2 Groove
Sheaves**
F= 1 3/4
L= 1 1/4
X= 7/8
G= 7/16
E= 3/16
P= 7/16
O.L.= 1 3/4



2BKHR



s = solid, ● lh = lighting hole, ⊙ sp = spoked ⊗

Part No.	Diameters			Type	Dimensions			
	O.D.	"4L or A"	"5L or B"		O.L.	P	C	WT.
BK36HR	3.75	3.00	3.40	2 s	1 1/2	7/16	-	1.5
BK40HR	3.95	3.20	3.60	2 s	1 1/2	7/16	-	1.7
BK45HR	4.25	3.50	3.90	2 s	1 1/2	7/16	-	2.1
BK47HR	4.45	3.70	4.10	2 s	1 1/2	7/16	-	2.3
BK50HR	4.75	4.00	4.40	2 s	1 1/2	7/16	-	2.7
BK52HR	4.95	4.20	4.60	2 s	1 1/2	7/16	-	3.0
BK55HR	5.25	4.50	4.90	2 s	1 1/2	7/16	-	3.5
BK57HR	5.45	4.70	5.10	2 s	1 1/2	7/16	-	3.6
BK60HR	5.75	5.00	5.40	2 s	1 1/2	7/16	-	3.5
BK62HR	5.95	5.20	5.60	2 s	1 1/2	7/16	-	3.7
BK65HR	6.25	5.50	5.90	2 s	1 1/2	7/16	-	4.0
BK67HR	6.45	5.70	6.10	2 s	1 1/2	7/16	-	4.0
BK70HR	6.75	6.00	6.40	3 s	1 9/16	1/2	1/16	4.7
BK72HR	6.95	6.20	6.60	3 s	1 9/16	1/2	1/16	4.7
BK75HR	7.25	6.50	6.90	3 lh	1 9/16	1/2	1/16	4.7
BK77HR	7.45	6.70	7.10	3 lh	1 9/16	1/2	1/16	4.8
BK80HR	7.75	7.00	7.40	3 lh	1 9/16	1/2	1/16	5.3
BK85HR	8.25	7.50	7.90	3 lh	1 9/16	1/2	1/16	5.5
BK90HR	8.75	8.00	8.40	3 lh	1 9/16	1/2	1/16	6.0
BK95HR	9.25	8.50	8.90	3 lh	1 9/16	1/2	1/16	6.7
BK100HR	9.75	9.00	9.40	3 lh	1 9/16	1/2	1/16	7.1
BK105HR	10.25	9.50	9.90	3 lh	1 9/16	1/2	1/16	7.5
BK110HR	10.75	10.00	10.40	3 sp	1 9/16	1/2	1/16	8.6
BK115HR	11.25	10.50	10.90	3 sp	1 9/16	1/2	1/16	8.8
BK120HR	11.75	11.00	11.40	3 sp	1 9/16	1/2	1/16	9.2
BK130HR	12.75	12.00	12.40	3 sp	1 9/16	1/2	1/16	10.6
BK140HR	13.75	13.00	13.40	3 sp	1 9/16	1/2	1/16	12.9
BK150HR	14.75	14.00	14.40	3 sp	1 9/16	1/2	1/16	14.4
BK160HR	15.75	15.00	15.40	3 sp	1 9/16	1/2	1/16	15.5
BK190HR	18.75	18.00	18.40	3 sp	1 9/16	1/2	1/16	21.1

Part No.	Diameters			Type	Dimensions	
	O.D.	"4L or A"	"5L or B"		C	WT.
2BK50HR	4.75	4.00	4.40	2 s	-	4.4
2BK52HR	4.95	4.20	4.60	2 s	-	4.8
2BK55HR	5.25	4.50	4.90	2 s	-	5.4
2BK57HR	5.45	4.70	5.10	2 s	-	5.3
2BK60HR	5.75	5.00	5.40	2 s	-	5.6
2BK62HR	5.95	5.20	5.60	2 s	-	5.8
2BK65HR	6.25	5.50	5.90	3 s	1/4	6.4
2BK67HR	6.45	5.70	6.10	3 s	1/4	6.7
2BK70HR	6.75	6.00	6.40	3 s	1/4	7.2
2BK80HR	7.75	7.00	7.40	3 lh	1/4	8.3
2BK90HR	8.75	8.00	8.40	3 lh	1/4	9.8
2BK100HR	9.75	9.00	9.40	3 lh	1/4	11.5
2BK110HR	10.75	10.00	10.40	3 sp	1/4	13.6
2BK120HR	11.75	11.00	11.40	3 sp	1/4	15.0
2BK130HR	12.75	12.00	12.40	3 sp	1/4	16.7
2BK140HR	13.75	13.00	13.40	3 sp	1/4	19.8
2BK160HR	15.75	15.00	15.40	3 sp	1/4	24.5
2BK190HR	18.75	18.00	18.40	3 sp	1/4	26.0

Each HR Sheave includes an **HRBK** bolt kit to use in place of standard H bushing bolts.

BK Sheaves are accurately machined from gray cast iron, statically balanced, painted and individually packaged.

Note: Cast iron sheaves may not exceed 6500 FPM. This speed **DOES NOT** specify if dynamic balancing (2 plane) is required. Contact customer service to verify whether dynamic balancing is required.

All HR sheaves use standard MasterDrive H bushings.

H bushings stock in inch and metric sizes

Proven to Work

- * Currently approved and in use with multiple OEM's.
- * Independent tests exceeded 2 million cycles in torsional fatigue testing.



Reversing load torsional fatigue test using a hydraulic rotary actuator.

All testing performed by independent metallurgical testing facility. Complete report copies are available upon request.

Test No.	Bushing Description	Torque Amplitude	Cycles Run (in-lbs)	Failure Description
1	MASTERDRIVE	810	500,000	No failures detected
2	MASTERDRIVE	1,000	500,000	No failures detected
3	MASTERDRIVE	1,200	500,000	No failures detected
4	MASTERDRIVE	1,620	500,000	No failures detected

Proven Advantages:

- * Faster mounting when “bushing first” is required to keep assembly close to the shaft support bearings.
- * Greater flexibility in belt alignment.
- * Reduced bearing load.
- * Increases efficiency of assembly lines.
- * Made and shipped from our main facility in Wisconsin.
- * Available for immediate delivery.

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Web: masterdrives.com E-mail: masterdrive@masterdrives.com