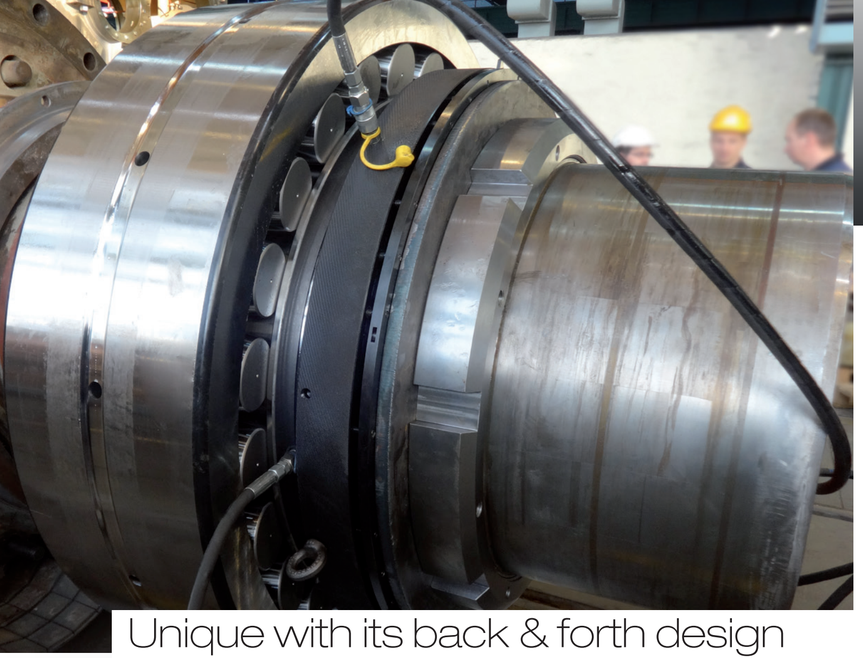

Unique with its back & forth design

3 good reasons to use the hydraulic nuts from NTN SNR

- The most professional tool to provide the drive up force required
- Precise and reliable adjustment of radial bearing clearance
- Cost effective, easy to use and secure, it will reduce your down time

HMV technical data

NTN SNR HYDRAULIC NUT

A MUST FOR MOUNTING / DISMOUNTING

Distributed by:

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NTN SNR With You

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Experts & Tools

NTN-SNR HYDRAULIC NUTS
A MUST FOR MOUNTING / DISMOUNTING

your spherical roller bearings with tapered bore

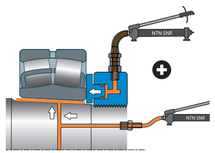
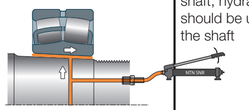
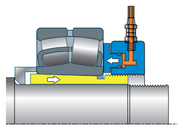
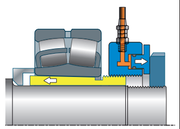
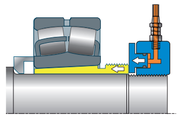
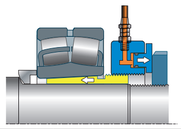
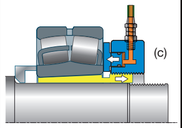
NTN SNR

www.ntn-snr.com

With You

Assemble or disassemble your spherical roller bearings with HMV in only 3 steps.

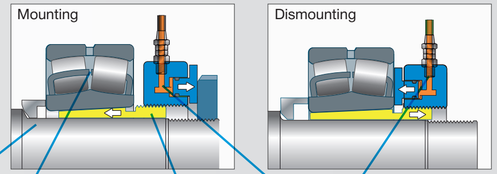
1 WHAT IS YOUR NEED ?

	Mounting	Dismounting	Comments
Tapered shafts			For dismounting roller bearings on a tapered shaft, hydraulic pressure should be used through the shaft
Adapter sleeve			The same HMV can be used for both mounting or dismounting the bearing
Withdrawal sleeve	 (a)  (b)	 (c)	2 solutions • The same HMV can be used for both mounting or dismounting the bearing (b+c) • 2 different HMV can be used for mounting or dismounting SRB (a+c)

2 SELECT THE RIGHT **HMV**

Using the selection tables available on request (overview here below)

Example :
22313EK to be used with
a withdrawal sleeve
AND one HMV 15EBF



HMV HYDRAULIC NUTS WITH WITHDRAWAL SLEEVE

Shaft diametre (mm)	Bearing bore (mm)	SRB		withdrawl Sleeve	HMV used for mounting	HMV used for mounting + dismounting	Locknuts	Washer
60	65	21313 VK	22213 EK	AH 313	HMV12 EBF	HMV15 EBF		
				AH313G		HMV14 EBF	KM12	MB12
		22313 EK		AH 2313		HMV15 EBF		
				AH2313G		HMV14 EBF	KM12	MB12
65	70	21314 EK	22214 VK	AH314	HMV13 EBF	HMV16 EBF		
				AH314G		HMV15 EBF	KM13	MB13
		22314 EK		AHX2314		HMV16 EBF		
				AHX2314G		HMV15 EBF	KM13	MB13
				AH 2314		HMV17 EBF		
900	950	239/950VK		AOH39/950	HMV180 EBF	HMV200 EBF		
		230/950 EK		AH30/950		HMV200 EBF		
				AOH30/950		HMV200 EBF	HM30/900	MS30/900
		240/950EK30		AOH240/950		HMV200 EBF	HM30/900	MS30/900

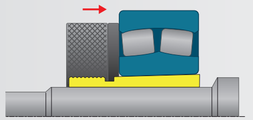
HMV HYDRAULIC NUTS WITH ADAPTER SLEEVE

Shaft diametre (mm)	Bearing bore (mm)	SRB		Adapter Sleeve	HMV used for mounting + dismounting	Locknuts	Washer
45	50	21310VK	22210 EK	H310	HMV10 EBF	KM10	MB10
		22310EK		H2310		KM10	MB10
50	55	21311VK	22211 EK	H311	HMV11 EBF	KM11	MB11
		22311EK		H2311		KM11	MB11
55	60	21312VK	22212 EK	H312	HMV12 EBF	KM12	MB12
		22312EK		H2312		KM12	MB12
900	950	239/950 VK		H39/950H	HMV190 EBF		
		230/950 EK		H30/950H			
		240/950EK30		H240/950H			
950	1000	230/1000 EK		H30/1000H	HMV200 EBF		
		240/1000EK30		H240/1000			

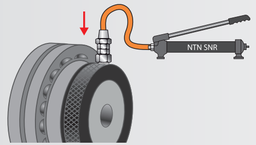
3 OPERATE THE **HMV**

a Screw the HMV on the thread until the bearing and HMV are in contact.

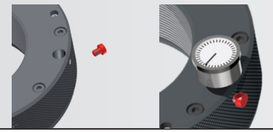
Warning : Do not forget to grease the thread!



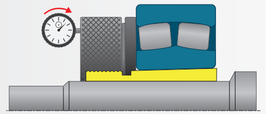
b Connect the pump to the HMV.



c Mount the dial gauge (not included) onto the HMV using the dial gauge holder (supplied with the HMV). Set the gauge to " 0 ".

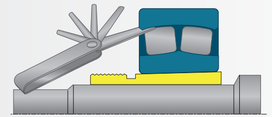


d Activate the pump until you reach the desired displacement of the HMV (value of displacement available on our NTN-SNR catalogue).



e Release pressure on the pump in order for the HMV piston to return to its original position. Remove the HMV carefully.

f Check with feeler gauges if required clearance is ok.



Tutorial HMV mounting

Technical data concerning the HMV

- HMV nut is supplied with:
  - Two hydraulic connection points.
  - One quick coupling connection (male) that can be positioned on the front face or on the outside diameter.
  - 3 holes in the front face are provided for mounting the dial gauge (not included).
  - tommy bar.

Max. permitted operating pressure at max. piston stroke	HMV 10 EBF to HMV 25 EBF	700 bar
	HMV 26 EBF to HMV 40 EBF	550 bar
	HMV 41 EBF to HMV 60 EBF	450 bar
	HMV 62 EBF to HMV 100 EBF	400 bar
	HMV 102 EBF to HMV 120 EBF	350 bar
	HMV 126 EBF to HMV 200 EBF	300 bar

- Easy handling with eye bolt for nut sizes HMV60 EBF and upward
- Tommy bar supplied and the provision of 4 holes on the outer diameter
- HMV's available in metric and inch sizes (1.967 to 37.410 inch)
- Special sizes on request

Accessories for HMV:

- Dial gauge: 2 sizes available (050 & 100) in order to measure the displacement from 5mm to 10mm
- Adapter kit for dial gauge: 4 sizes included with the kit

NTN SNR With You

Pump used with HMV

3 kits designed to provide the best service to your HMV
- Tool pumps set 700 b 0.3 L for nuts <= HMV 54 EBF
- Tool pumps set 700 b 0.9 L for nuts <= HMV 92 EBF
- Tool pumps set 1500 b 2.5 L for nuts <= HMV 200 EBF

All the kits include:
- pressure gauge
- high quality hose (1.5m for the pump 700 b 0.3 L & 3 m for the 700b 0.9L and 1500b 2.5L)
- 1 quick coupling connection (female)
- supplied with hydraulic oil

To check bearing clearance

- TOOL FEELER GAUGES 100
- TOOL FEELER GAUGES 150
- TOOL FEELER GAUGES 300
  Feeler gauge set
  (length 100, 150, 300 mm)