



# **Eberspächer**

**Hochdruck Hydraulik • High-pressure hydraulics**

## Hydraulic Clamp Shift Units

**Push - System**

**Shifting force up to 650 kN**



**Push and Pull - System**

**Shifting force up to 3800 kN**



We are your professional partner when it comes to heavy loads.



**Clamp Shift Unit**

A clamp shift unit consists of:

- clamp system,
- hydraulic power system and
- set of hoses

**Drive**

Electro-hydraulic unit driven by a three-phase AC-motor, 400 V / 50 Hz

**Hydraulic control**

By manual control valves or solenoid valves. For Accurate positioning of the load, manually operated proportional control valves are used in single systems.

**Clamping Body**

**Mechanical Clamping:**

- to push loads
- for medium shifting forces
- straightforward and robust system
- shifting cycle 1000 mm
- shifting speed up to 20 m / h

**System Operation**

The clamp-type shifting unit is mounted on the rail. The shifting jack is fitted to the structure and to the clamp-type shifting unit. The shifting unit is linked with the hydraulic control through hoses.

For shifting the load, the clamp-type shifting unit clamps on the rail. The double-acting shifting jack will then extend over the maximum possible travel, thus shifting the load. The load is now at rest and the shifting jack causes the clamp-type shifting unit to follow, in order to shift the load again in the next step.

**Hydraulic Clamping:**

- to push and pull loads
- for high shifting forces
- braking during up- oder downhill shifting
- shifting cycle 1000 mm
- shifting speed up to 20 m / h

Type	Force	Profile
BH 92	350 kN	UIC 60 / S 49
BH 141	500 kN	UIC 60 / S 49 / A 75
BH 150	500 kN	HEB 300 - HEB1000*
BH 138	650 kN	A 100

(more shifting forces upon request)  
 \* EURONORM 53-62 or IPB - DIN 1024-2 / DIN EN 10034

Type	Force	Profile*
BH 163	500 kN	HEM 300
BH 169	1000 kN	HEM 300
BH 142	1250 kN	HEM 300
BH 165	1500 kN	HEM 300
BH 173	2000 kN	HEM 300
BH 174	2500 kN	HEM 300
BH 168	3000 kN	HEM 300
BH 158	3800 kN	HEM 300

(more shifting forces upon request)  
 \*EURONORM 53-62 or IPBv - DIN 1024-5 / DIN EN 10034

**Note:**

Clamp systems are usually combined to a set, to shift loads synchronously.

