

## FELD DELTA

Motor Clamshell Grabs

### The versatile classic

- Crossbeam with compact electro-hydraulic drive unit
- Working cylinders drive jaws directly
- Pair of jaws with synchronization lever
- Optimum usage of lift height thanks to low overall height
- Shell construction relieved of large cylinder forces by force guides
- At the same time, the force guides form a protected mounting space for the cylinders
- Grab cutting edges with welded-on, service-friendly, wear-resistant Bofors profiles

### DELTA N, standard model

| Size     | Shell capacity [m <sup>3</sup> ] | Bulk density | Unladen weight [kg] | Drive power [kW] |
|----------|----------------------------------|--------------|---------------------|------------------|
| DH 2 K 0 | 0,32 – 0,80                      | 1,0 – 3,6    | 480 - 585           | 5                |
| DH 2 K 1 | 0,63 – 2,00                      | 1,0 – 3,6    | 960 - 1320          | 12               |
| DH 2 K 2 | 1,00 – 3,20                      | 1,0 – 3,6    | 1360 - 1950         | 15               |
| DH 2 K 3 | 1,60 – 5,00                      | 1,0 – 3,6    | 2230 - 3070         | 24               |
| DH 2 K 4 | 2,50 – 8,00                      | 1,0 – 3,6    | 3170 - 4175         | 30               |
| DH 2 K 5 | 4,00 – 12,50                     | 1,0 – 3,6    | 5400 - 9000         | 48               |
| DH 2 K 6 | 5,00 – 20,00                     | 1,0 – 3,6    | 9500 - 12000        | 54               |

### DELTA U, underwater grab

| Size       | Shell capacity [m <sup>3</sup> ] | Bulk density | Unladen weight [kg] | Drive power [kW] |
|------------|----------------------------------|--------------|---------------------|------------------|
| DH 4 K 0 U | 0,32 – 20,00                     | 1,0 – 3,6    | 480 - 12000         | 5 - 54           |
| DH 6 K 5 U | 0,32 – 20,00                     | 1,0 – 3,6    | 480 - 12000         | 5 - 54           |

### DELTA U, B, on-board grab

| Size       | Shell capacity [m <sup>3</sup> ] | Bulk density | Unladen weight [kg] | Drive power [kW] |
|------------|----------------------------------|--------------|---------------------|------------------|
| DH 4 K 0 U | 1,00 – 20,00                     | 1,0 – 3,6    | 1360 - 12000        | 15 - 54          |
| DH 6 K 5 U | 1,00 – 20,00                     | 1,0 – 3,6    | 1360 - 12000        | 15 - 54          |

### DELTA M, refuse grab

| Size     | Shell capacity [m <sup>3</sup> ] | Bulk density | Unladen weight [kg] | Drive power [kW] |
|----------|----------------------------------|--------------|---------------------|------------------|
| DH 2 K 0 | ---                              | ---          | ---                 | ---              |
| DH 2 K 1 | ---                              | ---          | ---                 | ---              |
| DH 2 K 2 | ---                              | ---          | ---                 | ---              |
| DH 2 K 3 | ---                              | ---          | ---                 | ---              |
| DH 2 K 4 | 0,63 – 8,00                      | ---          | 780 – 5370          | 5 – 30           |



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### **Drive unit**

Driven by three-phase AC or DC motor.

The electric motor is switched via a reversing contactor and opens and closes the jaws electro-hydraulically depending on the direction of rotation. Reliable switching processes; control is carried out without solenoid valves. Overload protection through self-regulating hydraulics. Low overall height, compact construction. Secure retention of loads even in the case of a power failure thanks to check valves.

### **Working cylinders**

High closing force and high opening speed thanks to differential cylinders driving the jaws directly. Thanks to a special installation position, the cylinder is protected from damage on all sides. Corrosion-resistant piston rod thanks to special chrome plating.

### **Jaws**

High closing force and high opening speed thanks to differential cylinders driving the jaws directly. Thanks to a special installation position, the cylinder is protected from damage on all sides. Corrosion-resistant piston rod thanks to special chrome plating.

### **Pivots**

All pivots are designed to be low-maintenance. Jaw synchronization with synchronization lever for clamshell grab. For the orange-peel grab, the jaws close independently of one another.

### **Additional equipment**

- Heat protection for electrics and hydraulics for use in hot working environments
- Hydraulics protection for the hydraulic hoses, for working with very long, bulky loads.
- Tilt switch to prevent tipping when the grab is out of the crane driver's range of vision.
- Full motor protection to prevent overheating.