



### Introduction Hulst Innovation Cable Equipment B.V.

Hulst Innovation Cable Equipment (HICE) started as a sole proprietorship in 1994 on the 4th of July. The head office is located in Westeremden and another establishment opened in 2018 in Appingedam,

The Netherlands.

HICE gained years of experience and has developed as an innovative machine and construction building partner.
HICE provides services to a wide variety of companies.
(power) Cable handling

All of these can be built to client wishes. At HICE we can provide client requirements to ensure a safe execution of a cable project.

### **HICE** and sustainability

For years we have been very aware of the climate change, but also of the finiteness of fossil fuels. That's why we made a conscious decision to work as sustainable and efficient as possible on both of our locations. We installed 90 solar panels and 5 Solar water heaters on the roof of our company.

and installation equipment have been part of our scope for the last 15 years.

# Out of the box thinking, design and engineering

The combination of creativity, an out of the box approach and years of practical experience in the cable related offshore industry has enabled HICE to provide tailored solutions to client requirements. When the job needs to be delivered on time and within budget, there is a knowledgeable and enthusiastic team at your disposal to get the job done.

### Modular design and transportable by truck

All our equipment is based around a modular design and can be transported by truck, enabling easy mobilization to site and is build by HICE. Furthermore the design and fabrication process of equipment for offshore related use is certified by DNV-GL.

### Support Equipment

HICE has over the years built numerous systems and constructions to support cables of various weight and dimensions. This can be for example cable roller-tracks on/off-shore, cable-chutes used on key-sides or on offshore vessels for cable deployment or jointing and cable deployment bows.

In January 2017 we placed a 15 meters high Braun Antaris windmill at our location in Westeremden. Our companies are heated by an 80 kW and 240 kW wood chip heater. Next to our stoves stands a 30 cubic meter chipper bunker. The chips are automatically fed into the stove by means of a mortar. These stoves have the capacity to heat the entirecompany. This means that we are not dependent on gas.

The combination of the windmill, our solar panels and the wood chip heater ensure that we are approximately 85% self-sufficient in our annual energy consumption!





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every challenge'

### INTRODUCTION

Hulst Innovation Cable Equipment (HICE) is innovative and creative and works with its clients to modify and improve new and existing equipment. At HICE we see a solution for every challenge, where the focus always remains on cable specifications and practicality. The starting point is maximum functionality from as simple as possible systems to ensure a high reliability and usability over the lifespan.



Hulst Innovation Cable Equipmer Vierburenweg 9922 TE Westeremden, The Netherland

### **CONTENTS**

### Cable Handling equipment

4
5
6
7
8
9
10
11
12
13
14
15





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**Support Equipment** 





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### **BOW CABLE ENGINE 5T**

from fibre optic to medium sized power cables. The cally driven, whereby the system can be used both for



### **TECHNICAL SPECIFICATIONS**

Overall dimensions

Length 1650mm

(approx. value) exclusive quadrants

Width 1250mm

(approx. value) exclusive quadrants

Height 2000mm

(approx. value) exclusive quadrants

90° side quadrants Weight in air

Working load limit

Power supply

Wheel pairs Wheel drive

Working pressure Max. pulling force Cable opening Speed control

Load control Optional

Suitable for up to 4.5m bending radius 3.50t (approx. value) incl. quadrants 8.50t (approx. value) solely related to cable weight

380V, 50Hz, 32A or 440V, 60Hz,

32A / C Charakteristic

4x wheels with wheel 650mm/each 4x hydraulic motors with cooled electric

driven HPU 200 bar

20kN

Min. 25mm / max. 300mm 0 - 50 m/min (0 - 3.000 m/h)

Hydraulic drive with continuous variable speed and regulation in both directions

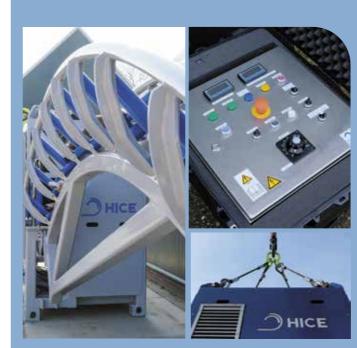
Load cell with 0 - 10,000kg capacity





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### **BOW CABLE ENGINE 10T**



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### **TECHNICAL SPECIFICATIONS**

Overall dimensions

Length 1700mm

(approx. value) exclusive quadrants

Width 1410mm

(approx. value) exclusive quadrants

Height 2150mm

(approx. value) exclusive quadrants

Suitable for up to 5m bending radius

5.5t (approx. value) incl. quadrants

15t (approx. value) solely related to

90° side quadrants Weight in air

Working load limit

cable weight 380V, 50Hz, 32A or 440V, 60Hz, Power supply

32A / C Charakteristic

Wheel pairs

4x wheels with wheel 650mm/each Wheel drive 4x hydraulic motors with cooled electric

driven HPU

200bar

20kN

capacity

Working pressure Max. pulling force Cable opening

Load control

Min. 25mm / max. 350mm 0 - 50 m/min (0 - 3.000 m/h)Speed control

> Hydraulic drive with continuous variable speed and regulation in both directions

Optional: Load cell with 0 - 10,000kg



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Page 5

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Page 4





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### **LINEAR CABLE ENGINE 3T**



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### **TECHNICAL SPECIFICATIONS**

**Dimensions LCE** Length 3.1m Width 1.6m Height 1.5m

Weight in air 2.8t

**Dimensions HPU** Length 2.8m

Width 1.1m Height 2.2m

Weight in air

440V, 60Hz, 75kW Power supply

3x wheel pair with wheel 620mm/each Wheel pairs Wheel drive 6x hydraulic motors with individual gear boxes and hydraulic brakes

Working pressure Line Tension force

30kN (can be increased to 45kN) Min. 0mm / max. 450mm Cable opening 0 - 50 m/min (0 - 3,000 m/h)Speed control

280bar

Hydraulic drive with continuous variable speed and regulation in both directions

Operating modes Manual via potential meter

Constant speed Constant tension

Wheel pairs can be opened, closed, started and stopped either simultaneously or

separately

Operations via remote control console c/w local and remote emergency stop

Permanently installed frame-mounted Tension measurement load-cell PAT Krüger with 0 - 10,000kg

capacity



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# **LINEAR CABLE ENGINE 5T**



### **TECHNICAL SPECIFICATIONS**

**Dimensions LCE** Length 4.6m

> Width 1.6m Height 1.3m

Weight in air 3.5t

**Dimensions HPU** Length 2.8m

> Width 1.1m Height 2.2m

Weight in air 2.8t

Power supply 440V. 60Hz. 75kW

Wheel pairs 5x wheel pair with wheel 620mm/each

Wheel drive 10x hydraulic motors with individual gear

boxes and hydraulic brakes

Working pressure

Line tension force 50kN (can be increased tot 70kN)

280bar

Min. 0mm / max. 450mm Cable opening Speed control 0 - 50 m/min (0 - 3.000 m/h)

> Hydraulic drive with continuous variable speed and regulation in both directions

Operations modes Manual via joystick

> Constant speed Constant tension

Wheel pairs can be opened, closed, started

and stopped either simultaneously or

separately

Operations via remote control console c-w

local and remote emergency stop

Tension measurement Permanently installed frame/mounted load/cell PAT Krüger with 0 - 10,000kg

capacity

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## **CABLE COILING ARM**

### **TECHNICAL SPECIFICATIONS**

**Overall dimensions** Radius 10m

Drop height 20-30mtr

Adjustable with 10ft containers

(not included)

Working load limit

500kg / 10m (approx. value) solely related

to cable weight

Power Supply

380V, 50Hz Rotation itself not driven

Cable opening

Min. 30mm Max. 300mm

Transport

Transportable by road

**OVAL CABLE COILING ARM** 

### **TECHNICAL SPECIFICATIONS**

**Dimensions** 

Length 8.0m (base frame) Width 1.9m (base frame) Height 7.1m (base frame)

Weight on deck Working load limit

Power supply

6.5t (approx. value) excl. containers 500kg (approx.. value) solely related to

cable weight 380V, 50Hz, 11kW

20kN

Max. pulling force 2
Cable opening N

Modular transport

Min. 30mm / max. 300mm Container transportable







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### **CABLE COILING SCOOTER**

### **TECHNICAL SPECIFICATIONS**

We build the Cable Coiling Scooter according to client specifications. Depending on cable and basket specifications.



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Page 10

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### **MOBILE CABLE PICK-UP CRANE**

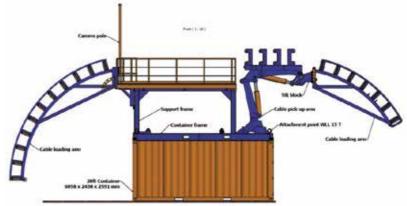




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## **TECHNICAL SPECIFICATIONS**

- Easily controlled from OD-ID vice versa by remote controlled crane quadrant
- Easily adjustable height by standard classified 20" containers
- Base frame with container locks, easily transportable by truck
- Easily mobilisation
- Build in HPU
- Can be equipped with 3T LCE
- Max cable opening 350mm
- Max. load 3T (approx. 20mtr. x 150kg)
- Standard quadrants with MBR 5mtr, other dimensions upon
- · Excluded containers to extend the height



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### **DIGITAL CABLE COUNTER**

measured data for collection.

# **TECHNICAL SPECIFICATIONS**

Length 0.68m

Width 0.25m

Height 0.35m

Weight in air

Power Supply 230V, 60hZ

Measuring wheel 1x aluminium wheel with 1000m

circumference / 150mm

Min. 25mm / max. 350mm Cable opening

1x digital encoder HWI104S-Encoder

2021R073-2000pulses/rev

(2000pulses/rev)

2x MKS Dx348 display (speed/count), Display

serial output 232/rs485

Overall dimensions

Appr. 10kg









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Page 12

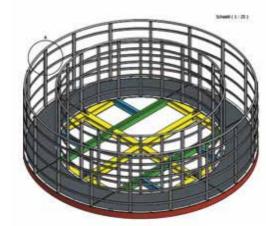
### **MODULAR CABLE BASKET**

- · High quality
- Easy transportable by road (disassembled)

**TECHNICAL SPECIFICATIONS** 

- Suitable for spooling cable with a Modulair Cable system
- Design also suitable for spooling with SPMT
- Dimensions can be adjusted to cable specs
- Also available with steel protected walls and top cover
- Optional: liftable with load incl. certificate





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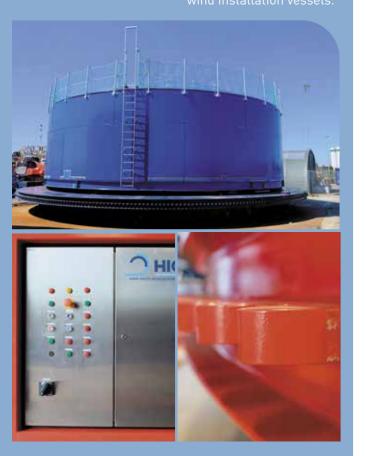


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### **MODULAR CABLE SYSTEM**

wind installation vessels.



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### **TECHNICAL SPECIFICATIONS**

**Dimensions** 

Assembled Weight Baskets

Approx. 30Te (without basket) MCS designed baskets following project cable specifications, can be placed on the

MCS (max. 500T cable load)

8540mm OD x 920mm

Capability

Drive 2 x 20kW Hydraulic Motors equipped with

failsafe brakes

Speed 1000m/hr maximum lay rate

Power

75kW - 2.8m L x 1.1m B x 2m H - 8Te

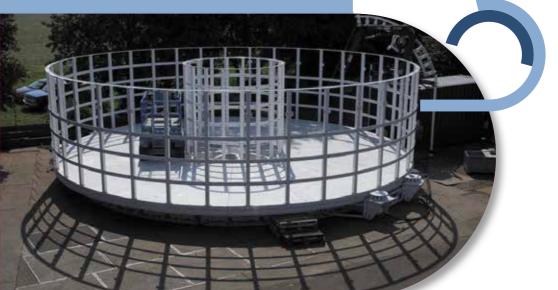
Required Supply 400V, 50Hz, 3 Phase

1x Hydraulic Hose & Power cable set Connection Package

> supplied DNV-GL

**Design Verification** 







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### **MODULAR ONSHORE STORAGE TURNTABLE**

of the individual parts.



### **TECHNICAL SPECIFICATIONS**

Our turntables can be build conform project requirements.

**Dimensions** 0D 14m

ID 4m

Bottom height 0,09m Basket height 3,5m Total height 4,4m

2 pcs at 440V, 60Hz, 125A Power supply 4x hydraulic sprocket drives Drive system

250bar Working pressure 0 – 1200m/hr Speed control

Hydraulic drive with continuous variable

speed and regulation in both directions

750 - 1350tons Load capacity General DNV-GL approved





DNV-GL

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Page 15





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### MODULAR OFFSHORE TURNTABLE

For use on board of vessels for transport or installation, HICE has developed an offshore unit called the MOT (Modular Offshore Turntable). This turntable is based on the same principles as the MOST, but differs in many details. For offshore use double drives and controls are applied and when 'parked' the MOT is resting on its parking-blocks instead of the bearing wheels. The above is required to deal with higher forces and loads resulting from waves and vesses motions. The MOT was optimised with end-users and experience gained from practice and can easily be installed on board of a transport or installation vessel. The cable can be safely handled or laid through the turntable and ancillary systems without risk of damage. The design is kept simple and easy to main tain to ensure reliability. The construction of the MOT is improved and strengthened to meet the offshore requirements and has been approved and certified by DNV-GL (Det Norske Veritas – Germanische Lloyd)

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### **TECHNICAL SPECIFICATIONS**

Our Turntables can be build conform project requirements

**Dimensions** OD 14m

ID 4m

Bottom height 0,09m Basket height 3,5m Total height 4,4m

Power supply 2 pcs at 440V, 60Hz, 125A

Drive system 4x hydraulic sprocket drives

Working pressure 250bar

Speed control 0 – 1200m/hr

Hydraulic drive with continuous variable speed and regulation in both directions

Load capacity 750 – 1000tons

General DNV-GL approved



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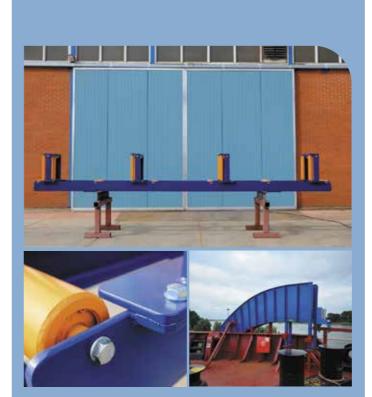


Page 16

### **SUPPORT EQUIPMENT**

Hulst Innovation Cable Equipment built for several years different kinds of systems and constructions to support cables of various weight and dimensions.

We've made amongst other things roller tracks for on- and offshore use, cable chutes useable at key-sides or at vessels for cable laying, deployment and/or jointing and deployment quadrants.



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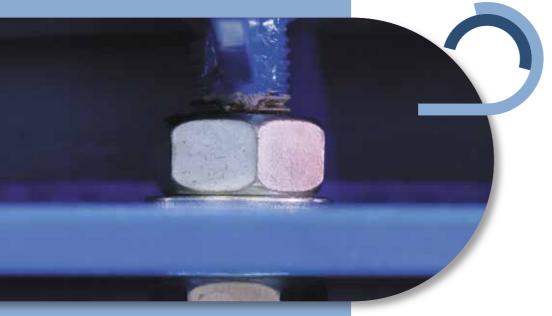
### **TECHNICAL SPECIFICATIONS**

All the equipment can be build to client specifications.

At HICE we can support client requirements to ensure safe execution of a cable project.



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Wind Cable Services 2016

Page 18

### PROJECT RECORDS

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The list with project references shows what we have build the last years.





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### **PROJECT CLIENT** YEAR • 5 T Linear Cable Engine Dixstone 2020 • 3 T Linear Cable Engine Dixstone 2020 • 1 T Linear Cable Engine Dixstone 2020 Cable Coiling Arm Dixstone 2020 • 10T Bow Cable Engine Wind Cable Services 2020 • 10 T Bow Cable Engine LS Cable 2020 • 248 T Modular Cable Basket Liftable Van Oord 2020 • Mobile Cable Pick Up Crane DOC 2020 Van Oord • 168 T Modular Storage Bakset 2019 85 T Modular Cable Basket Van Oord 2019 660T Modular Cable Basket lifatbel with load DOC 2019 • 1000T Turntable, Modular Cable System DOC 2019 • 10 T Bow Cable Engine LS Cable 2019 • Drives for 2200 T Turntable, with 75 & 110 kW HPU VBMS 2018 • 10 T (WLL) Bow Cable Engine (BCE 4-350) ). 2-wheel pair, integrated HPU, remote control **VBMS** 2018 • 400 T cable storage basket. OD 12.8 mtr VBMS 2018 • 130 T cable storage basket OD 10 mtr liftable **VBMS** 2018 • 300 T liftable cable storage basket OD 12 mtr DOC 2018 ASN 2018 • 10 T (WLL) Bow Cable Engine (BCE 4-350)), 2-wheel pair, integrated HPU, remote control Wind Cable Services 2017 • 5t. (WLL) Bow Cable Engine (BCE), 2-wheel pair, Prysmian Finland 2017 integrated HPU, remote control • 5t. (WLL) Bow Cable Engine (BCE), 2-wheel pair, integrated HPU, remote control James Fisher 2017 • 5t. Linear Cable Engine (LCE), 5-wheel James Fisher 2017 pair, c/w HPU, remote controls • Air winch, WLL 1st layer 9.8 t, WLL top layer 7 t James Fisher 2017 • 90 kW Hydraulic Power unit, for multiple use James Fisher 2017 • 5t. Linear Cable Engine (LCE), 5-wheel TAGU pair, c/w HPU, remote controls 2017 • 400 T Turntable , Modular Cable Systems, (MCS) DOC /Swanhunter c/w electro-hydraulic HPU's, remote controls • 5t. Linear Cable Engine (LCE), 5-wheel pair, c/w HPU, remote controls Wind Cable Services 2017 • 3t. Linear Cable Engine (LCE), 3-wheel pair. c/w HPU. remote controls HICE • 300 T liftable cable storage basket OD 12 mtr **VBMS** 2017 Wind Cable Service 2017 Basket loading arm Cable counters Several clients 2017 Tilting table, capacity of 12 T, pneumatic, specific for cable reel Draka Prysmian 2016 • Cable reel transport rail, electrical driven Draka Prysmian 2016 Turning platform, cap.12 T, hydraulic, specific for Cable reel Draka Prysmian • Lifting floor, cap 12 T, hydraulic, specific for cable reel Draka Prysmian

• 0.75 t (WLL) Electrical Bow Cable Engines specific

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for fiber optic cable, 2 wheel pair. Remote control

