inova® Industry



INOVA® Industrial sliding gates Security through innovation

INOVA quality: One step ahead in security

Protecting your investment, your assets and your security, permanently and reliably: that is the task to which INOVA sliding gates are ideally suited. What makes them so outstanding is the unique, patented design: the drive unit on INOVA sliding gates is housed invisibly inside the lower beam, instead of being mounted on the inside edge of the gate leaf itself, as is the case with conventional gates.

This cantilevered design, brilliant in its simplicity, has already won several prizes, and justifiably so, given the numerous advantages it offers:

- Particularly reliable, because far fewer components are needed compared with conventional sliding gates
- Drive unit is totally protected against the elements, dirt and debris
- Highly reliable in use
- Stylish appearance, because the drive unit is concealed invisibly within the lower beam
- Minimal foundation work is required
- Gate runs perfectly smoothly even in snow and harsh working environments

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An innovation that pays for itself!

Since the innovative design of INOVA sliding gates means that many of the components of conventional gates (some of them prone to breakdown) such as stud chains, toothed racks or drive unit covers, are simply gates. no longer necessary, the manufacturing, installation and maintenance costs are all dramatically reduced. For you, that means maximum security combined with excellent value for money!

It's no wonder that in just a few years INOVA sliding gates have become one of the market leading products throughout Europe: countless customers in industry, public services and the private sector have complete confidence in INOVA sliding



Prizes:

- Seifriz Prize 1996
- Münsterland Innovation Prize 1997
- Bavarian State Prize



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Depending on the width of your entrance, you can choose between different gate types and

INOVA 160 MI, 160 ETI, 160 ESI

Lower beam height 160 mm Lower beam depth 165 mm up to 6000 mm Opening width Drive power 0.18 kW

INOVA 200 MI, 200 ETI, 200 ESI

Lower beam height 200 mm Lower beam depth 165 mm Opening width up to 8000 mm 0.37 kW Drive power

INOVA 280 MI, 280 ETI, 280 ESI

Lower beam height 280 mm Lower beam depth 205 mm up to 12000 mm Opening width

Drive power 0.75 kW

INOVA 380 ETI, 380 ESI, 400 ETI, 400 ESI

Lower beam height 380 or 400 mm Lower beam depth 205 mm Opening width up to 16000 mm

Drive power 0.75 kW







INOVA 160

INOVA 200

With a maximum opening width of 16 m per gate, when 2 are installed opposite each other, opening widths of up to 32 m are possible.

INOVA sliding gates can be installed quickly, easily and cheaply, because the gates are supplied fully pre-assembled. The drive unit and safety devices are ready for use when they are delivered, and all only the foundation work and pre-cabling is necessary. There is a tensioning element in the design of the gate to provide the necessary tensioning and allow for later adjustments.







Extremely quiet in operation

Reducing noise levels is a way of protecting the environment, so that's why INOVA gates run particularly quietly. This is achieved by the extensive use of roller bearings in polymer guide rollers. The results are obvious: the gate opening and closing cycles are practically

Emergency operation even in a power cut

To ensure that the gates can continue to be operated smoothly even in a power cut, the gear unit on INOVA sliding gates can easily be set to manual operation, so that the gate can simply be opened and closed by hand.



Inovamatic microprocessor control

Protected from the elements, the electronic controls are cleverly enclosed within a purpose made section of the guide column. This lockable section of the column can be easily opened and closed when maintenance or adjustments are necessary.



Electrical drive fitted in lower beam

The electrical drive unit on INOVA gates is fitted in the lower beam, invisible from the outside and protected from tampering and the weather, yet easily accessible for maintenance. An AC-powered worm gear unit provides direct



Height-adjustable roller support

Where conventional gates require two rolling wheel supports, INOVA needs only one - the drive unit acts as the second support. This results in significant material and cost savings.



Intelligent control system for accident prevention

To minimise the risk of accidents or damage to property, INOVA gates stop automatically whenever they come across obstructions or are subjected to resistance.



To do this, there are five contact strips fitted on the gate itself and on the guide column.

power transmission to the gate.



Inova[®] Specialist





Recent Inova Projects:

- 2012 Olympic Project London
- National Grid Upgrades various locations in UK
- E.S.B security upgrades various locations in Ireland
- EDF Energy Substations London
- Royal Mail High Security Cash Depositing Centres 23 Units
- Luton Airport
- Belfast City Airport (32.0m wide bi-parting gate opening)
- Warwickshire Police Authority high speed gates fitted for emergency response teams.
- Various local authorities / Government Bodies Ireland & UK.





- * Design
- * Manufacture
- Installation
- **Testing**
- Commissioning
- * Maintenance

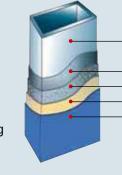
Inova Gates UK professional design consultants work closely with architects/specifier's to tailor designs to suit individual needs & requirements.

All Inova units have the key Inova features as paramount in the parameters of the design.

- Durability
- Safety Standards to BS EN 13241-1
- High Security

Durability -

All Inova units are hot dip galvanised, shot-blasted with V2A special steel and double power coated, providing a top- quality, environmentally friendly, longlasting corrosion resistant surface.



steel profile

hot dip galvanisation (cleaned) V2A special steel (blasted) bonding powder coating top-coat powder coating

Safety Standards -

All Inova specialist units are fully compliant to BS EN 13241-1, including extensive documentation on maximum permitted closing forces and documentation on the prescribed initial testing of the complete gate by an authorised body.

High Security -

In recent times many sites have been classed as 'High Risk' from possible terrorist threat. Inova gates high security solutions have won many testimonials from government bodies, major utilities and local authorities making them the market leader in this area.

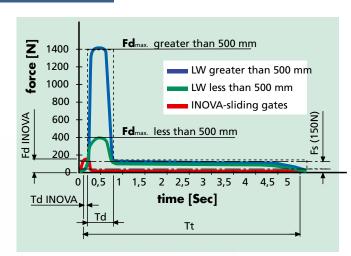
Legal Requirements

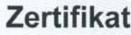
Controlled force

In order to avoid injuries caused by sliding gates, the maximum permitted force that can occur in connection with gates is restricted by legislation under EN 12453. INOVA is leading the way in complying with this regulation and is well within the permitted values. All INOVA products have to pass a comprehensive safety and function test on our test bench before delivery. This means we can guarantee



Technical Inspection Authoritystandard safety ... for your safety!





Registrier-Nr. Registered No.

44 780 09 555058-001

Zeichen des Auftraggebers

Aktenzeiche

8000555058

Berlemann Torbau GmbH Ulmenstraße 3 D-48485 Neuenkirchen

ist berechtigt, das unten genannte Produkt mit dem abgebildeten Zeichen zu kennzeichnen

Name und Anschrift

des Auftraggebers

is authorized to provide the product mentioned below with the mark as illustrated

Manufacturing plant

Tested in

Prüfbericht Nr.

Test report no.

09325555058

the customer

Name and address of

Fertigungsstätte

Geprüft nach

01.12.2008

und Rauchschutzeigenschafter Abschnitt 4.2.1 - 4.2.8 und 4.3.1 - 4.3.4

EN 13241-1:2003 Tore - Produktnorm Teil1: Produkte ohne Feueraccordance with

EN 12604: 2000 Tore - Mechanische Aspekte (Anforderungen) EN 12605: 2000 Tore - Mechanische Aspekte (Prüfverfahren) EN 12453: 2000 Nutzungssicherheit kraftbetätigter Tore (Anforderungen) EN 12445: 2000 Nutzungssicherheit kraftbetätigter Tore(Prüfverfahren)

Beschreibung des

Freitragende Schiebetore INOVA Industrie optional mit Steuerungen INOVAMATIC 400 oder INOFLEX

Description of product

TÜV NORD CERT GmbH Zertifizierungsstelle für

Gültig bis / Valid until: 04/2014

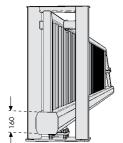
Hannover, 14.04.2009

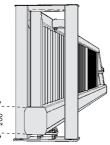
Bitte beachten sie auch die umseitigen Hinweise Please also pay attention to the information stated overleaf

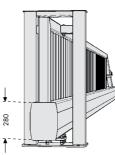
Langemarckstr. 20 • 45141 Essen • Fon • 49 (0)201 825 5120 • Fax • 49 (0)201 825 3209 • Email: prodoent@tuev-nord.de

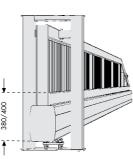












INOVA® Industry
Opening width
Total gate heights available (incl. 100 mm ground clearance)
Direction of opening (seen from outside)
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inova ° 160	<i>inova</i> ° 200	<i>inova</i> ° 280	inova ° 380/400	
2.0 to 6.0 m	4.0 to 8.0 m	6.0 to 12.0 m	12.0 to 16.0 m	
1200 to 2400 mm	1200 to 2400 mm	1200 to 2400 mm	1200 to 2400 mm	
Left or right	Left or right	Left or right	Left or right	
Gate leaf Bar infill □ 25	Gate leaf Bar infill □ 25	Gate leaf Bar infill □ 25	Gate leaf Bar infill □ 25	
Anti-wear strip	Anti-wear strip	Anti-wear strip	Anti-wear strip	
Tensioning device	Tensioning device	Tensioning device	Tensioning device	
Double receiver post, (can also be supplied for cementing in)	Double receiver post, (can also be supplied for cementing in)	Double receiver post, (can also be supplied for cementing in)	Double receiver post, (can also be supplied for cementing in)	
Assembly kit 8 concrete dowels	Assembly kit 8 concrete dowels	Assembly kit 8 concrete dowels	Assembly kit 8 concrete dowels	
Colour: double powder-coating, RAL 6005, 7030, 7035, 9010, 9005 or 7016	Colour: double powder-coating, RAL 6005, 7030, 7035 9010, 9005 or 7016	Colour: double powder-coating, RAL 6005, 7030, 7035 9010, 9005 or 7016	Colour: double powder-coating, RAL 6005, 7030, 7035 9010, 9005 or 7016	
Acceptance: TÜV (Technical Inspection Authority) Type approval				

Initial type testing for compliance with EN 13241-1

Foundation plan: INOVA standard plan

Documentation: assembly instructions, operating instructions / inspection certificate



Series production specification

INOVA® Industry	TYP MI Manual	TYP ETI Electric drive (dead man's handle control)	TYP ESI Electric drive (impulse control)
Guide column (Type MI also available for cementing in)			
Integrated electric drive INOVA 160 (0.18 kW) INOVA 200 (0.37 kW) INOVA 280/380 and 400 (0.75 kW)	No		
Control	No		
		Dead man's handle control	Inovamatic 400
Safety device EN 12453	No	No	5 contact strips 2 light barriers
Operating panel inserted on both sides of the guide column	Manual	Key has to be turned in the direction of movement and held; the gate only moves in the required direction while the key is held.	
		2 key-operated buttons OPEN/CLOSE	key-operated button OPEN/STOP/CLOSE key-operated button OPEN/EMERGENCY STOP /CLOSE
1 channel remote control 434 MHz	No	Not permitted	
External operation	No	Not permitted	See optional extras



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