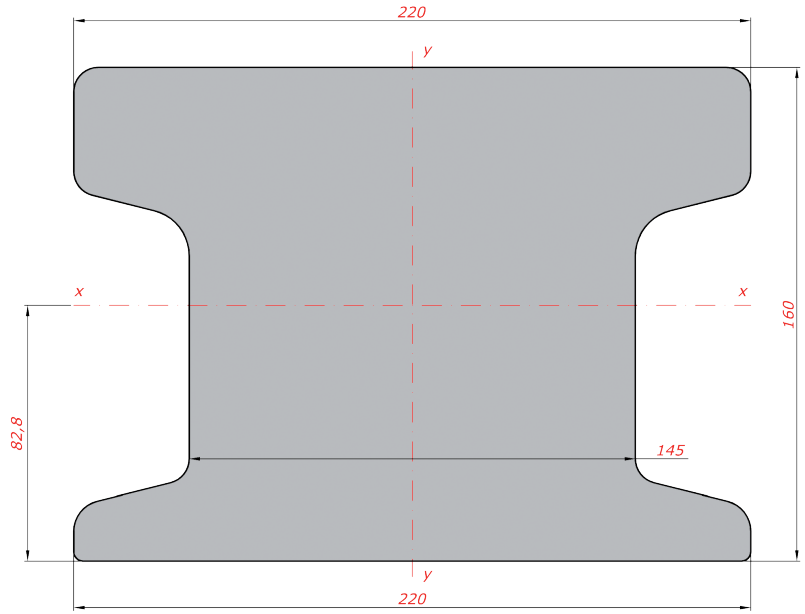
VALENTE SINCE 1919 SPA
One hundred years of reliability

**Headquarters:**
Via Don Minzoni, 6
20045 – Lainate (MI) Italy
Tel. +39 02.93799212 - Fax. +39 02. 93799349
mail@valente.it
www.valente.it www.valente1919.com

**Registered office:**
Via Emilio Motta, 6
20144 – Milano (MI) Italy
info@valente.it

**ISO 9001:2015 Certified**

# KRANSCHIENEN
# RAIL MRS221




| | | |
|---|---|---|
| **MASSE** | 221.4 | [Kg/m] |
| **FLÄCHE** | 282.1 | [cm²] |
| **TRÄGHEITSMOMENT X-X** | 6862 | [cm⁴] |
| **TRÄGHEITSMOMENT Y-Y** | 8167 | [cm⁴] |
| **QUERSCHNITTMODUL X-X – KOPF** | 888.9 | [cm³] |
| **QUERSCHNITTMODUL X-X – BASIS** | 828.7 | [cm³] |
| **QUERSCHNITTMODUL Y-Y** | 742.5 | [cm³] |

RAIL MRS221
SCHIENE

VALENTE SINCE 1919 SPA 100
One hundred years of reliability

**Headquarters:**
Via Don Minzoni, 6
20045 – Lainate (MI) Italy
Tel. +39 02.93799212 - Fax. +39 02. 93799349
mail@valente.it
www.valente.it www.valente1919.com

**Registered office:**
Via Emilio Motta, 6
20144 – Milano (MI) Italy
info@valente.it

**ISO 9001:2015 Certified**

# KRANSCHIENEN
# RAIL MRS221

## INDIREKTE BEFESTIGUNG

### MIT ABSTANDHALTER

| BEFESTIGUNGSERIE | SEITLICHE ANPASSUNG [mm] | SEITENLAST [KN] | ANZUGSDREHMOMENT [Nm] | BEFESTIGUNGSSYSTEM |
|---|---|---|---|---|
| VALEX 1004 | – | – | – | – |
| VALEX 3016 | – | – | – | – |
| VALEX 3116 | – | – | – | – |
| VALEX 5016 | – | – | – | – |
| VALEX 5020 | 14 | 140 | 275 | VALEX 5020-42-23 |
| VALEX 5024 | – | – | – | – |
| VALEX 5116 | – | – | – | – |
| VALEX 5120 | 14 | 250 | 275 | VALEX 5120-43-23 |
| VALEX 5124 | 20 | 300 | 500 | VALEX 5124-50-26 |
| VALEX 9022 | – | – | – | – |

### OHNE ABSTANDHALTER

| BEFESTIGUNGSERIE | SEITLICHE ANPASSUNG [mm] | SEITENLAST [KN] | ANZUGSDREHMOMENT [Nm] | BEFESTIGUNGSSYSTEM |
|---|---|---|---|---|
| VALEX 1004 | – | – | – | – |
| VALEX 3016 | – | – | – | – |
| VALEX 3116 | – | – | – | – |
| VALEX 5016 | 10 | 70 | 150 | VALEX 5016-34-18 |
| VALEX 5020 | 14 | 140 | 275 | VALEX 5020-38-16 |
| VALEX 5024 | – | – | – | – |
| VALEX 5116 | 10 | 165 | 150 | VALEX 5116-34-18 |
| VALEX 5120 | 14 | 250 | 275 | VALEX 5120-39-16 |
| VALEX 5124 | 20 | 300 | 500 | VALEX 5124-40-19 |
| VALEX 9022 | – | – | – | – |

## DIREKTE BEFESTIGUNG

| BEFESTIGUNGSERIE | SEITLICHE ANPASSUNG [mm] | SEITENLAST [KN] | ANZUGSDREHMOMENT [Nm] | BEFESTIGUNGSSYSTEM |
|---|---|---|---|---|
| VALEX 2012 | – | – | – | – |
| VALEX 2016 | – | – | – | – |
| VALEX 2020 | – | – | – | – |
| VALEX 2024 | 15 | 160 | 550 | VALEX 2024-42-23 |
| VALEX 2124 | 15 | 290 | 550 | VALEX 2124-42-23 |
| VALEX 4018 | – | – | – | – |
| VALEX 4021 | – | – | – | – |
| VALEX 4023 | – | – | – | – |
| VALEX 4025 | – | – | – | – |
| VALEX 4028 | – | – | – | – |
| VALEX 6024 | 15 | 165 | 550 | VALEX 6024-50-27 |
| VALEX 7020 | – | – | – | – |
| VALEX F036 | – | – | – | – |
| VALEX F046 | – | – | – | – |
| VALEX F050 | – | – | – | – |
| VALEX F060 | – | – | – | – |
| VALEX D510 | – | – | – | – |
| VALEX D614 | – | – | – | – |
| VALEX D820 | – | – | – | – |

| BEFESTIGUNGSERIE | SEITLICHE ANPASSUNG [mm] | SEITENLAST [KN] | ANZUGSDREHMOMENT [Nm] | BEFESTIGUNGSSYSTEM |
|---|---|---|---|---|
| VALEX 2012 | – | – | – | – |
| VALEX 2016 | – | – | – | – |
| VALEX 2020 | – | – | – | – |
| VALEX 2024 | 15 | 160 | 550 | VALEX 2024-42-18 |
| VALEX 2124 | 15 | 290 | 550 | VALEX 2124-42-18 |
| VALEX 4018 | – | – | – | – |
| VALEX 4021 | – | – | – | – |
| VALEX 4023 | – | – | – | – |
| VALEX 4025 | – | – | – | – |
| VALEX 4028 | – | – | – | – |
| VALEX 6024 | 15 | 165 | 550 | VALEX 6024-50-21 |
| VALEX 7020 | – | – | – | – |
| VALEX F036 | – | – | – | – |
| VALEX F046 | – | – | – | – |
| VALEX F050 | – | – | – | – |
| VALEX F060 | – | – | – | – |
| VALEX D510 | – | – | – | – |
| VALEX D614 | – | – | – | – |
| VALEX D820 | – | – | – | – |

GEEIGNETES BEFESTIGUNGSSYSTEM FÜR DIE SCHIENE MRS221