



Company: _____

Address: _____

Phone: _____ Fax: _____

Name: _____ Department: _____

E-mail: _____ Date: _____

1. Project details

Project designation: _____

Application: _____
(Industry/machine/function/performance, etc.)

Task/function of brake system: _____
(Braking method of machine/task and function
of brake/safety issues/effects/energy
turnover etc.)

2. Brake type

Mode of operation: ☐ Active ☐ Passive
(spring activated/fail-safe)

☐ Actively self-locking ☐ Not yet sorted out

Preferred design: ☐ Electromechanical EMB-STOP ☐ Hydraulic KTR-STOP®

☐ Pneumatic KTR-STOP PB ☐ Does not matter

3. Technical specification: load

Braking torque: M_b _____ Nm

Is a safety factor included? ☐ Yes ☐ No ☐ Required: _____

Braking torque 2: M_{b2} _____ Nm as: min./max./etc. _____
(Please define if necessary)

Driving resp. load torque during braking process available? M_L _____ Nm ☐ Not available

Max. speed of brake disk: n_{max} _____ rpm
(When activating the brake)

Mass moment of inertia on the brake disk: J _____ kgm^2
(Complete drive train)

**4. Geometry/mounting space**

Number of brakes per disk: z _____

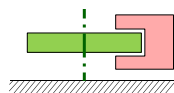
Brake disk $\varnothing$: D_A _____ mm

Thickness of brake disk: D_t _____ mm

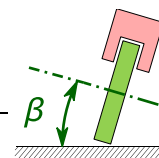
Outside $\varnothing$ flange/coupling: D_c _____ mm
(Limitation of mounting space of brake)

Material of brake disk: _____

Mounting position of brake disk: ☐ Axis vertical



☐ Axis horizontal
 β _____

**5. Braking times**

Response time required: t_0 _____ Sec.
(Time until 100 % clamping force F_c)

Braking time, net: t_b _____ Sec.
(Time during which braking energy is converted)

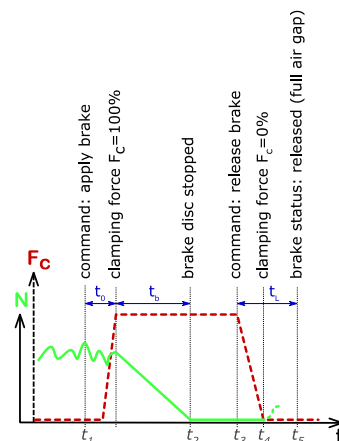
Braking time, gross: $t_{b \text{ tot.}}$ _____ Sec.
(= $t_0 + t_b$)

Releasing time, net: t_{L0} _____ Sec.
(Time from release order to 0 % clamping force F_c)

Releasing time, gross: t_L _____ Sec.
(Time from release order to complete release)

Number of actuations per annum: $a_{p. a.}$ _____ Cycles p. a.

Max. frequency: $a_{p. m.}$ _____ Cycles/min
(Actuation per time unit)

**6. Ambient conditions**

Max. ambient temperature during operation: T_{max} _____ °C

Min. ambient temperature during operation: T_{min} _____ °C

Colour: Electromechanical
EMB-STOP
Hydraulic
KTR-STOP®

☐ Standard RAL 7035

☐ Other: _____

☐ Standard RAL 5005

☐ Other: _____

Corrosiveness class/duration of protection:
(as per ISO 12944-1 and ISO 12944-2)

☐ Standard C4-H

☐ Other: _____

Other specifications: _____

**7. Electrical interface/connection/signals**Power supply:
(Electromechanical EMB-STOP or
hydraulic power pack)☐ Standard 400 V AC/50 Hz☐ Special voltage: U_{DC} _____ V
 U_{AC} _____ V _____ Hz

Backup for power supply:

☐ Yes☐ No

Control voltage:

☐ Standard 24 V DC

Output signal:

☐ Released☐ Wear☐ Braked☐ Warning of wearControl box for EMB-STOP:
(for standard power supply only)☐ Yes☐ No**8. Hydraulic power pack**

Hydraulic power pack scope of supply/KTR: _____

Hydraulic oils specified: _____

Features:

(e. g. emergency operation, hand pump, etc.) _____

Requested feedback on hydraulics: _____

9. Intelligent module for controlled braking processes (IntelliRamp®)

IntelliRamp® required?

☐ Yes☐ No

Required with backup?

☐ Yes☐ No

Control size of IntelliRamp®:

☐ Continuous speed☐ Continuous deceleration☐ Continuous time☐ Other: _____

Electrical interface:

(Digital input and output/signal/bus system) _____

10. Documentations and specifications by QM☐ Material quality certificate: _____☐ Initial sample test report: _____☐ ATEX:☐ Yes☐ No☐ Other: _____

